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FEBRUARY 24, 1923.

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Vol. XCVIII.



Samples on request  
from  
Allen & Hanburys Ltd  
Bethnal Green, E.2.

## NEW SEASON'S

# COD-LIVER OIL

from our

## Löföten Factory

We have received from Norway the first consignment of 1923 Cod-Liver Oil. It has the following characters:

### Physical.

Colour—Very Pale.  
Odour—Very slight.  
Taste—Bland and not unpleasant.  
Non-coagulable at 0°C. Specific Gravity—0.927.  
Refractive Index at 20°C.—1.4786.

### Chemical.

				B.P. Standards
Acid Value	-	-	-	0.88 2.5 (max).
Saponification Value	-	-	-	191 179 - 192
Iodine Value	-	-	-	173 155 - 173
Unsaponifiable Matter	-	-	-	0.44 not more than 1.5

The colour reaction given by sulphuric acid is very marked: this has been shown to indicate high content of Vitamin A

The results of the examination and analysis show the Oil to be of excellent quality. The unsaponifiable matter is unusually low. The high iodine value shows the presence of a maximum proportion of unsaturated fatty acids.

# WRIGHT'S COAL TAR SOAP

## A DOUBLE SALES STIMULANT

### REDUCED PRICES.

REVISED 1st JAN., 1923.	Retail Price.	Ordinary Wholesale Price.	Lowest Wholesale Price for £8 orders.
WRIGHT'S in 3 doz. cartons COAL TAR SOAP, per tablet	6d.	4/11 doz.	51/8 i.e. grs. for 3 gross.
" in boxes of 3 tablets per box ....	1/6	14/9 doz.	155/- gross.
" Bath Tablets 3 in a box per box ....	2/6 per box or 10d. per tablet.	24/6 doz.	21/6 doz.
LESS 2½% CASH DISCOUNT.			

### £500 COMPETITION FOR PUBLIC.

This competition among the purchasing public is based on the number of printed wrappers sent us up to April 30 next. Results will be published in London newspapers.

1st Prize	£100	20 Prizes	£10
2nd	£50	15	£5
3rd	£25	25	£2

BE READY FOR THE  
INCREASED  
DEMAND

## A DOUBLE SALES STIMULANT

SUPPLIES OF HANDBILLS GIVING PARTICULARS OF COMPETITION  
FOR DISTRIBUTION AMONG CUSTOMERS ON APPLICATION TO

**WRIGHT LAYMAN & UMNEY LTD.**  
SOUTHWARK, LONDON, S.E.1



*If you are satisfied with  
your present turn-over  
this does not concern you.*

Our new Sulphur Tablets and  
Window Displays are ready.

Last season we persuaded the  
Public to eat more of these Spring-  
time blood cleansers than most  
Chemists had ever imagined  
possible.

This year

## **“THE WIGGLESWORTH WAY”**

Service will achieve bigger records  
This is no idle boast — simply  
cause and effect.

In the efficacy of Sulphur and  
Cream of Tartar in a palatable  
tablet, and the Public's good  
opinion of it as a Spring Medicine,  
lies a golden opportunity—for in-  
creasing sales—At 2 ozs. 3½d. there  
is a profit of £7-0-0 per hundred-  
weight. If you are interested  
send us a post card—just write  
“Sulphurs.”

**Wigglesworth, Ltd.**  
**Westhoughton,**  
**Lancashire.**

*Spring, Summer  
Autumn, Winter*

# VINOLIA

## PRODUCTS

*are always in demand*

**THOUGH** the seasons change, there is always a steady demand for the Vinolia Toilet Preparations. The Chemist who displays Vinolia is associated with, and enjoys, the goodwill and confidence which the buying public place in the name "Vinolia." There is a Vinolia Toilet Preparation to meet the needs of every customer.

ALL THE VINOLIA ARTICLES  
ARE PACKED IN DAINTY  
CONTAINERS WHICH MAKE  
A DISTINCTIVE DISPLAY.



VINOLIA COMPANY LIMITED, LONDON. Offices and Works: BEBINGTON, CHESHIRE.





2340

## TOOGOOD'S FLORAL BATH CRYSTALS

In Bottles, Fitted Boxwood Top  
Corks, Capped and Ribbioned.

Assorted Odours—Lavender, Verbena, Cologne,  
Oriental Rose and Violet.

8	10	12	16	20 oz.
12/-	13/6	16/6	20/-	24/- doz.
32	40	60	90	130 oz.
36/-	47/6	66/-	90/-	120/- doz.

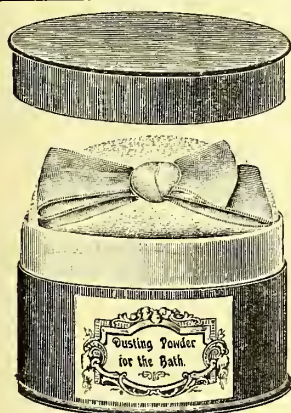
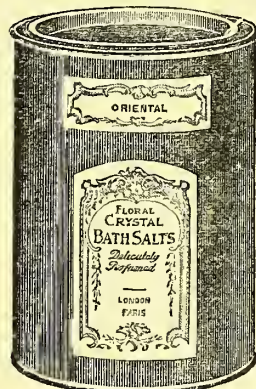
Customer's Name on 3 dozen assorted.

## FLORAL BATH CRYSTALS

Assorted Odours as above in Lever  
Lid Packages Covered Wood Veneer

2	4	7 lb.
26/-	50/-	90/- doz.

Customer's Name on 2 dozen assorted.



## DUSTING POWDER FOR THE BATH.

IN WOOD VENEER BOXES.

5" x 3½"

Complete with Wool Bath Puff.

No. 3688..	..	..	..	39/- doz.
Without Puff	..	..	..	20/- ..

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# Daily Mail

WORLD'S LARGEST NET DAILY SALE

LONDON. MANCHESTER. PARIS.

SATURDAY, FEBRUARY 17, 1923.

ONE PENNY



Are your muscles as keen  
as you are

## SANITAS EMBROCACTION

For the big job before him—jumping, running, golfing, footie, or any other sport—the keen athlete makes dead certain with "Sanitas" Embrocation that his Will-to-Win gets 100% support from his muscles. After hard practice he guards against stiffness by a brisk rub, adding hugely to his chance of victory. It's the same when the big job's over. Those muscles have been subjected to a terrific strain and the reaction can easily leave them as stiff as poker. But an application of "Sanitas" Embrocation eases them as nothing else can.

So for every sportsman or athlete "Sanitas" Embrocation is the magic mixture that keeps muscles and tendons young and elastic. Feel, as you rub it in, how it sets the blood a-tingle with new life—how it feeds and cleans, and yet penetrates the skin. By Jove! It's wonderful! It can put a sprain to rights in no time. A vigorous rub sends the embrocation through the skin to the sinews and supplies a natural oil to over-strained muscles, and knocks off half the time spent in resting after the sprain.

Not only the athlete, but the Old Timer and the Man in the Office who depend for their health upon the occasional game or exercise—they'll reap double the benefit from it when "Sanitas" Embrocation keeps the joints supple and wards off the stiffness after exertion.

Keep a bottle well to the front in the Medicine Chest, the whole family will soon find cause to use it and rejoice. And keep another on the bath-ledge, for a hot bath with a dash of "Sanitas" Embrocation is as tonic-y as a cold-plunge; it brings a comfortable glow that is the very symbol of good health!



The race of the eternally young! And those who have used "Sanitas" Embrocation longest are the most eager in the front. Their "bottle of reliability" is ready for them at every chemist's shop.

### OTHER WEAPONS IN HEALTH'S ARMOURY

"Sanitas" Fluid and "Sanitas" Powder (Disinfectant).  
"Sanitas" Soaps (Domestic and Toilet).  
"Sanitas" Toilet Paper.  
Guarantees of Permanent Protection, that are now regarded as necessities in thousands of homes.



REMEMBER  
TWO  
THINGS:

*Shake the  
Bottle and  
Rub Well*

The above appeared in "Daily Mail" last Saturday.  
There are plenty more strong Advertisements to follow.

**ARE YOU GETTING YOUR SHARE OF BENEFITS?**

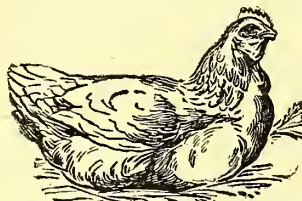
APPLY FOR SPECIAL TERMS.



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We are the largest packers of this line, using only the best quality glass, and perfectly sound containers.

*It will pay you to write to us. Prices compare favourably.*

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Proprietors of { TOMLINSON'S DAIRY HELPS.  
LUDDINGTON'S OILS and VETERINARY PREPARATIONS.  
HAYWARD'S PAINT STICKS, for branding Sheep, &c.



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# Business as Usual

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**MILTON MANUFACTURING COMPANY, LTD.**

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JOHN MILTON HOUSE, 125 BUNHILL ROW, LONDON, E.C.1





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**LARGE SALE + BIG PROFITS**

*25% to 33% Profit*

Made by Sellers of

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**BRITISH FOOD for BRITISH BABIES**

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MONOBROMATE CREOSOTE BEECHWOOD

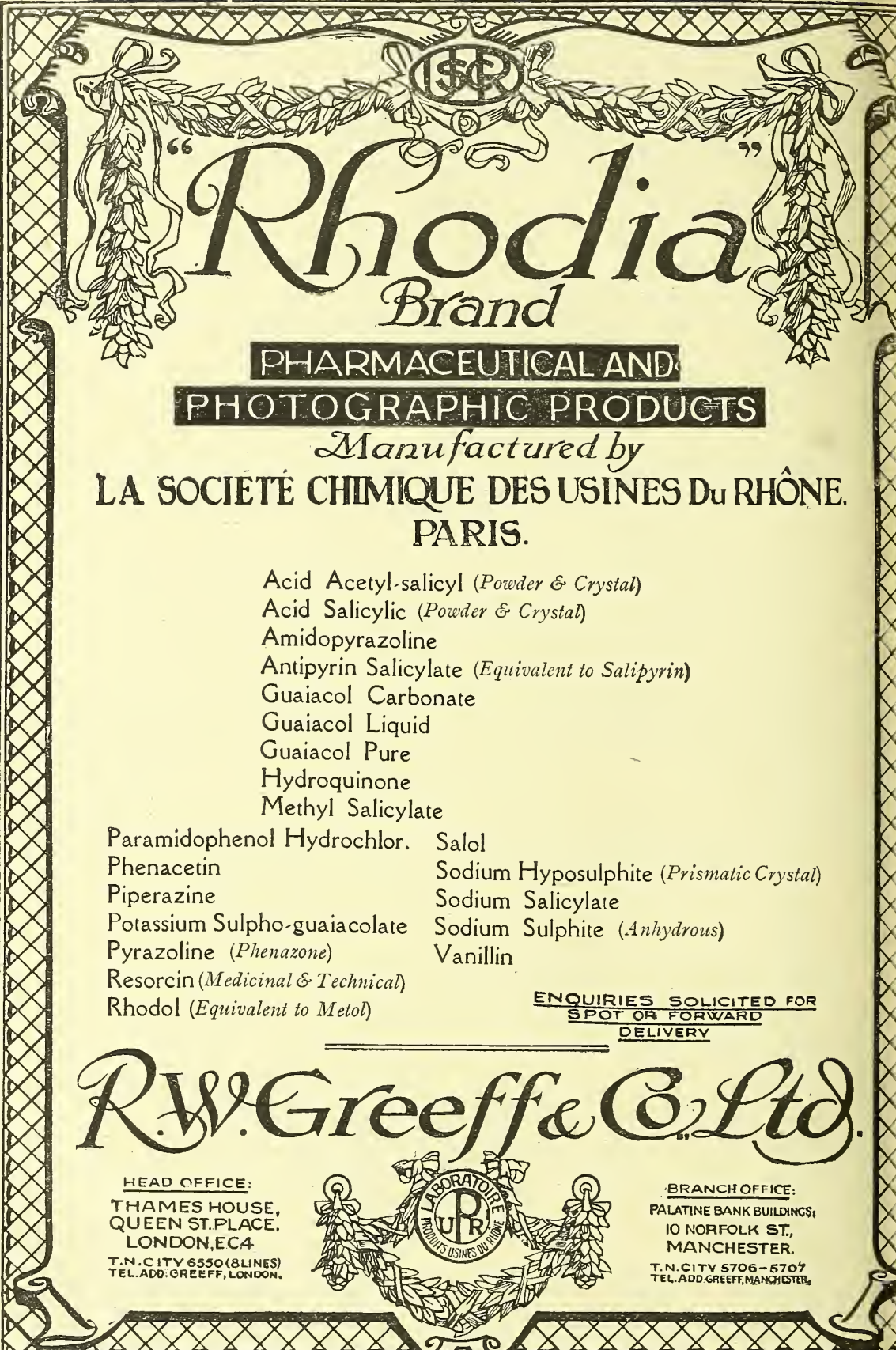
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 Guaiacol Pure  
 Hydroquinone  
 Methyl Salicylate


Paramidophenol Hydrochlor.  
 Phenacetin  
 Piperazine  
 Potassium Sulpho-guaiacolate  
 Pyrazoline (*Phenazone*)  
 Resorcin (*Medicinal & Technical*)  
 Rhodol (*Equivalent to Metol*)

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 Sodium Salicylate  
 Sodium Sulphite (*Anhydrous*)  
 Vanillin

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DELIVERY**


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 Amidopyrin Salicylate  
 Barbitone  
 Benzoic Acid  
 Benzamine Hydrochlor  
 Benzamine Lactate  
 Benzo-Naphthol  
 Beta-Naphthol  
 Bismuth Salts  
 Bromides  
 Caffeine Pure  
 Calcium Lactate  
 Calomel  
 Chloral Hydrate  
 Cinchonine and Salts  
 Cinchonidine and Salts  
 Citric Acid  
 Cocaine and Salts  
 Corrosive Sublimate  
 Coumarin  
 Creosote  
 Creosote Carbonate  
 Eucalyptus Oil  
 Formaldehyde

Gallic Acid  
 Glycerine  
 Glycerophosphates  
 Guaiacol and Salts  
 Heliotropine  
 Hexamine  
 Hornatropin and Salts  
 Hydroquinone  
 Ichthyol Substitute  
 Kelene  
 Lactic Acid  
 Lanoline  
 Lecithin  
 Lemon Oil  
 Lithia Carbonate  
 Mercurials  
 Methylene Blue Medicinal  
 Methyl Salicylate  
 Methyl Sulphonol  
 Milk Sugar  
 Oxalic Acid  
 Pancreatin  
 Paraldehyde  
 Pepsine  
 Peptone  
 Phenacetin  
 Phenazone  
 Phenolphthalein  
 Piperazine  
 Potassium Binoxalate

Potassium Chlorate  
 Potassium Permanganate  
 Potassium Sulphoguaiacolate  
 Pyrogalllic Acid  
 Quinidine and Salts  
 Quinine and Salts  
 Quinine Ethyl Carbonate  
 Quinoidine  
 Resorcine  
 Rhodol (Equivalent to Metol)  
 Saccharin  
 Safrol  
 Salicylates  
 Salipyrin  
 Salol  
 Soda Benzoate  
 Soda Hyposulphite  
 Soda Sulphite Anhydrous  
 Sugar/Lead  
 Tannic Acid Leviss  
 Tannin Albuminate  
 Tartaric Acid  
 Terpene Hydrate  
 Terpeneol  
 Theobromine and Salts  
 Thymol Crystals  
 Titanium White  
 Vanillin  
 Zinc Oxide  
 Zinc Phosphide

## R. W. Greeff & Co. Ltd.

Thames House, Queen Street Place, London, E.C. 4

Telephone 6550 City  
(8 LINES.)



ANCHESTER BRANCH  
 ATLANTIC BANK BUILDINGS  
 10, NORFOLK STREET.  
 TELEPHONE CITY 5706/5707

NEW YORK AGENTS  
 R. W. GREEFF & CO. INC.  
 78, FRONT STREET,

# "FARRIS'S"

is the Real Old-fashioned Air-Bleached

## GENUINE BEESWAX

**ABSOLUTELY PURE and ABSOLUTELY SNOW WHITE.**

## "FARRIS'S" GENUINE YELLOW BEESWAX

is carefully refined and entirely free from dross of any kind.

In slabs about 10 lb. each, also 1-lb., 4-oz., 2-oz., & 1-oz. rounds.

Celebrated for excellence and purity for upwards of three-quarters of a century.

**FARRIS'S SPECIALLY REFINED PURE SPERMACETI,**  
 Refined **MONTAN WAX** (the old-fashioned kind). **STEARIC ACID, CERASINE**

**ALSO WAXES & OILS OF EVERY KNOWN KIND & FOR EVERY PURPOSE.**

***The only actual Manufacturing Wax Chandler in the City of London***

**Helmet Court, Wormwood Street, Bishopsgate, London, E.C. 2.**  
**(Entrance also between 77 & 79 BISHOPSGATE).**

AN EXCEPTIONAL LINE FOR PERSONAL RECOMMENDATION

## COLLOSOL IODINE OIL (CROOKES')

This product of the Crookes Laboratories gives extraordinary results in **Burns, Bruises, Chilblains**, all forms of **Skin Troubles** and particularly **Local Rheumatism**.

Collosol Iodine Oil is widely prescribed by the medical profession, and its exceptional value, plus the generous margin of profit, makes it a line worth pushing.

LITERATURE, ETC., FROM

**THE CROOKES LABORATORIES,**  
**22 Chenies Street, Tottenham Court Road, W.C.1**

Telephones : Museum 3663, 3697.

Telegrams : "Colossally, Westcent, London."



Maw's



Page

## **"Meritor" Advertising**

### **Is sending Customers to Your Counter.**

The splendid advertisements for "Meritor" Toilet Brushware which are appearing almost daily in the leading newspapers of the country are not only making customers for toilet brushware, but they are actually sending these customers to the chemists' counter.

Every "Meritor" advertisement states clearly that "Meritor" brushware is only supplied by chemists. The whole "Meritor" advertising scheme is directed at increasing the chemists' business in toilet brushware, and at the same time adequately protecting this branch of his business from future attacks from outside competitors. You plant the seed of future prosperity when you put your power behind the "Meritor" idea.

Have you made your preparations for assisting the "Meritor" scheme, and reaping your share of the harvest which "Meritor" advertising will certainly bring? Have you adequate stocks of "Meritor" brushware and display material? Is there a full display of "Meritor" brushware in your window or your pharmacy?

*Watch "Meritor" advertising appearing in the "Daily Mail," "Daily Mirror," "Daily Sketch," "Daily Express," "Daily Telegraph," "Scotsman," "Glasgow Evening Times," "Yorkshire Evening Post," "Manchester Guardian," "Birmingham Daily Post," "Irish Times," "Sunday Times" and "Punch."*

**S. Maw, Son & Sons, Ltd.**

Aldersgate St., London,  
and Barnet.

Telephone:  
**City. 7**  
Private  
Branch  
Exchange

Telegrams:  
**Eleven**  
**Cent**  
**London**

TRADE MARK



Cables: **Eleven**  
London

Code: **A.B.C.**  
**4th & 5th**  
Edition

# Are YOU Displaying our New Tree Stand?

Handsomely  
designed in  
bronzed metal  
mounted upon  
a glass base,  
it has already  
proved itself  
a real live  
BUSINESS  
BRINGER

*Put one on  
your counter*



Each Stand  
contains three  
spare clips  
which may  
be used for  
showing your  
own goods or  
for displaying  
neat "slogans"  
which we will  
supply

*Write for a  
Stand now!*

**I**F you would like one of the handsome Tree Stands illustrated above, we will gladly forward it free of charge, but write *now* as our stock is fast being depleted.

Place the stand in a prominent position on your Counter, and note how quickly rise the sales of

## SANATOGEN, FORMAMINT and GENASPRIN

GENATOSAN, LIMITED, LOUGHBOROUGH, LEICESTERSHIRE.





## **YOU CAN AFFORD TO BE FASTIDIOUS**

*—when the bottles cost you less*

A well-made bottle gives the final touch of quality to the up-to-date Pharmacist's equipment. It is often his only credential in an introduction to a prospective customer.

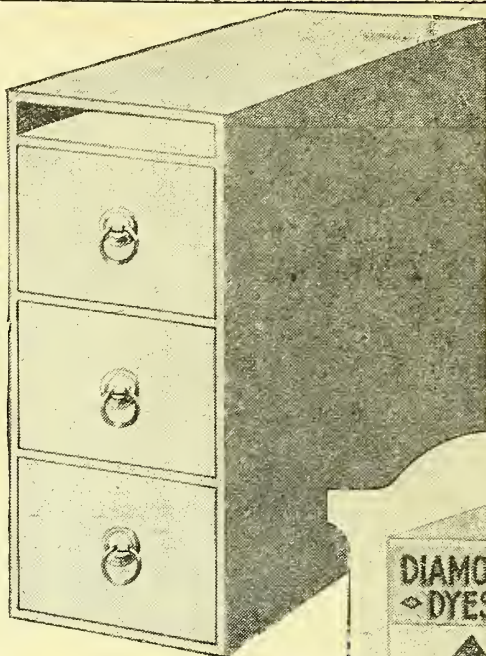
Moreover, it is a veritable aid to Auto-Suggestion, one of the chief ingredients in the prescriptions of Modern Therapy.

We are offering AT A SPECIAL LOW RATE hand-blown flint bottles of crystal lustre. They are unexcelled in brightness and strength, coupled with regularity in weight and capacity. A card will bring you a sample and quotation by return of post from:—

# **EVANS**

**EVANS SONS LESCHER & WEBB, LTD.**  
LIVERPOOL      New York      LONDON

# This handsome COUNTER CABINET FREE.



To enable you to increase your sales of reliable Diamond Dyes we offer you free and carriage paid a handsome Counter Cabinet (as illustrated).

Artistically finished and strongly made the cabinet is fitted with three drawers and not only holds your stock in a neat and tidy manner, ensures prompt service to customers but also acts as

## *An Excellent Silent Salesman.*

The design printed in colours as illustrated would be seen by everyone entering your shop and would undoubtedly assist you in converting possible buyers into actual customers.

## *Secure Your Free Cabinet Now.*

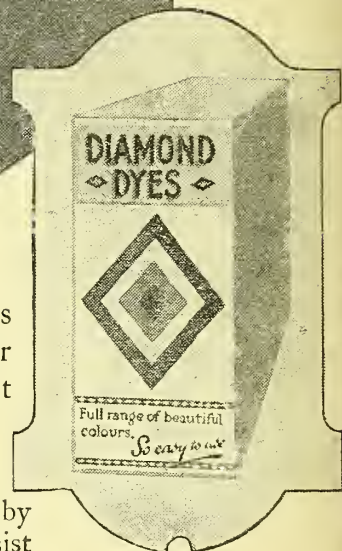
Your order for not less than 1 gross will bring the Cabinet carriage paid to your door.

Your net outlay is 45/8 and the Dyes sell at 72/- thus your profit on turnover is almost 40% whilst the free cabinet is worth a considerable extra profit, not only on this order but also on future orders because of its utility and attraction.

# DIAMOND DYES

## *PERFECTION IN HOME DYEING.*

*Sole Consignees : FASSETT & JOHNSON, LTD., 86, Clerkenwell Rd., London, E.C.1*



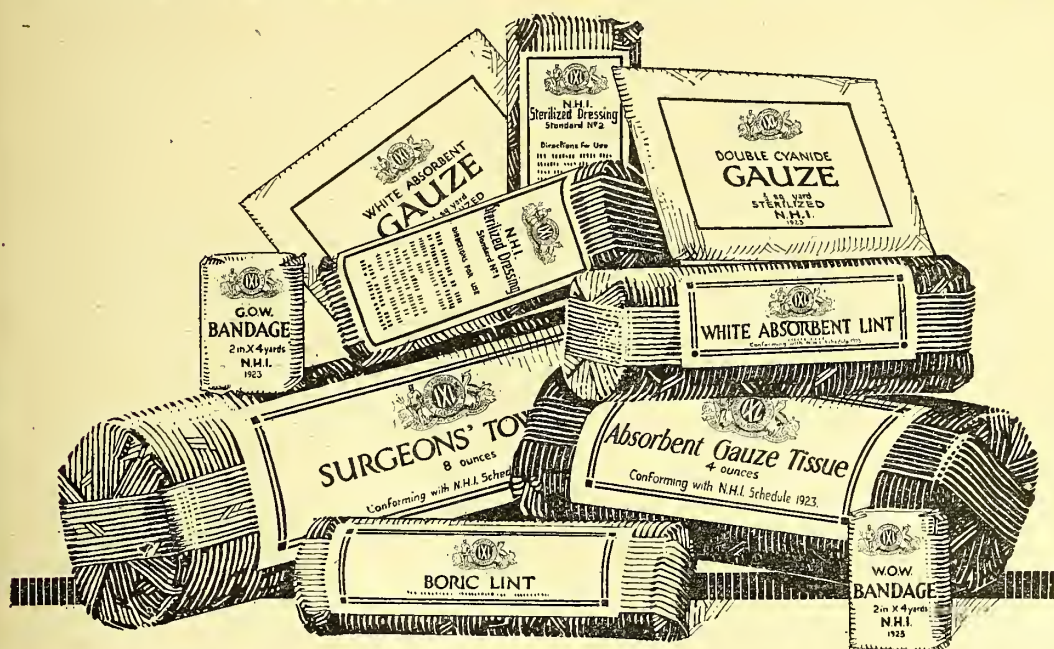
### TRADE :

4/- PER DOZ. NET

1 GROSS  
LESS 5%  
CARR. PAID.

RETAIL AT  
6d. Per Package





## *Are you ready for March 1st?*

The N.H.I. Schedule will demand on that date, special dressings—specially packed.

*Ayrton's*

N.H.I. dressings will carry a guarantee label and can be dispensed in full confidence that the requirements are fully complied with.

These dressings maintain our reputation for distinctive and efficient packs—complete sterilization is maintained up to the moment of use.

COMPREHENSIVE PRICE LIST ON APPLICATION.

**AYRTON, SAUNDERS & Co., Ltd.**  
Manufacturing Chemists - LIVERPOOL, ENG.

# IODISED THROAT TABLETS

"THE SURE SHIELD BRAND."

Trade Mark.

8½d.

TINS.

5/6 per dozen.  
63/- per gross.



1/3

TINS.

9/6 per dozen.  
108/- per gross.

Now advertised in  
the Daily and  
Evening Papers as  
under:

London Chronicle.  
The Daily Express.  
Daily Dispatch.  
Liverpool Echo.  
Yorkshire  
Evening Post.  
Newcastle Evening  
Chronicle.  
Sheffield Telegraph  
& Star.  
Birmingham Mail.  
Nottingham  
Evening Post.  
Leicester Daily  
Mercury.  
Manchester  
Evening News.  
South Wales Echo.  
Bristol Evening  
Times.  
Belfast Telegraph.  
The Irish Times.  
Western Evening  
Herald.  
Staffordshire  
Sentinel.  
Glasgow Evening  
News.  
The Era.

THE most popular  
and effective throat  
tablet—no greater  
testimony can be  
made than, although  
the brand has never  
previously been pub-  
licly advertised the  
sales have consistently  
increased month by  
month.

We supply a full  
range of display ma-  
terial, and with open-  
ing orders send free  
samples. Can we send  
you a sample gross  
order, assorted, with  
9 dozen samples car-  
riage paid as under:

	Costing
9 doz. 8½d. tins	2 7 3
3 doz. 1/3 "	1 7 0
	£3 14 3

	Retail Price
9 doz. 8½d. tins	3 16 6
3 doz. 1/3 "	2 5 0
	£6 1 6

Showing a Profit of  
£2 7 3

**THOS. GUEST & CO., Ltd.,**  
**Ancoats, MANCHESTER.**

## THE WORLD'S BEST HONEY

(New Zealand)

"IMPERIAL BEE"

The FINEST QUALITY THAT BEES PRODUCE

BUILD your HONEY TRADE on a sure FOUNDATION  
QUALITY means REPEAT ORDERS.

Cases 48×1's ..	Screw-top Glass ..	12 9 per doz.
" 48×½'s ..	" ..	7 6 "
" 48×1's ..	Monopots .....	11 3 "
" 48×½'s ..	" .....	6 - "
" 30×1's ..	Glass Tumblers ..	12 9 "
" 18×1¼'s ..	Glass Toby Jugs ..	17 9 "

CARRIAGE PAID TO ALL PARTS OF U.K.

Claims for allowances on Stocks on hand should  
be sent to Wholesalers to reach us within 7 days.

Special quotations to the Wholesale Trade and large buyers.

Quotations for Bulk (cases of 2/60 lb. tins) of all grades on application.

New Zealand Honey Producers' Association, Ltd.

Sole European Agents:

**A. J. MILLS & CO., Ltd.**

Produce and Canned Goods Department

14, TOOLEY STREET LONDON, S.E.1.

And at

Birmingham, Bristol, Cardiff, Glasgow, Leeds, Leicester,  
Liverpool, Manchester, Newcastle-on-Tyne

ESTABLISHED 1839.

## PROTECTIVE OVERALL CLOTHING FOR CHEMISTS & DRUGGISTS

**KHAKI DRILL  
WAREHOUSE COATS,**

7/11, 10/6, 12/6, 14/6.

**WHITE DRILL JACKETS,**  
6/6, 7/6, 10/6.

**WHITE DRILL LABORATORY COATS,**  
10/6, 12/11, 15/11.

**BLACK DRILL WAREHOUSE COATS,**  
15/6.

Postage on Coats 9d. each.



POST ORDERS Promptly and Carefully Executed.

We pay postage on all orders over 20/-.

1 Samples and special quotations for quantities  
sent on request.

STOCK SIZES, 34 to 44 Chest. When  
writing us measure Chest over waistcoat.

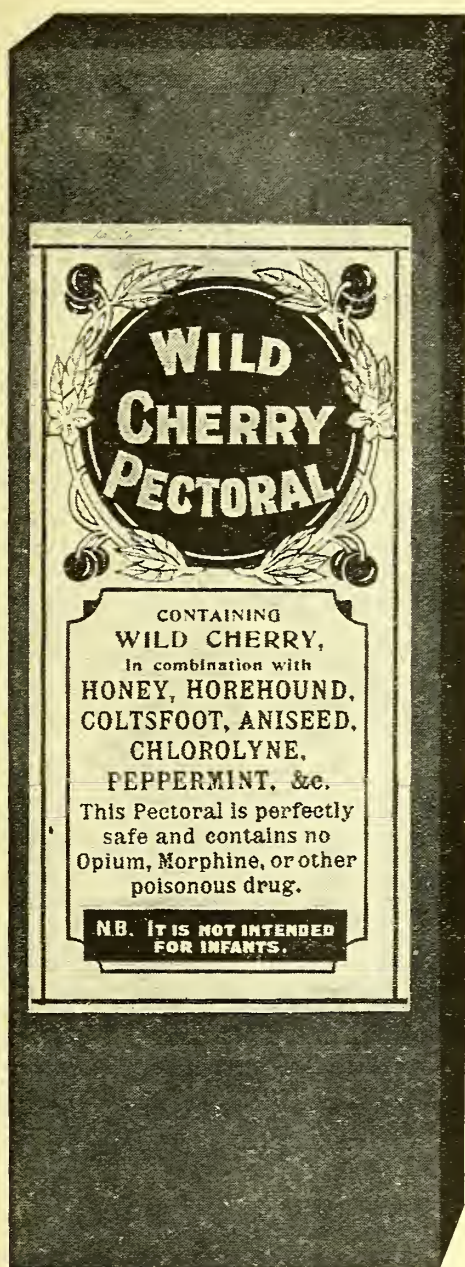
**GARDINER & Co. (THE SCOTCH HOUSE) Ltd.**  
(Dept. T.) 1 COMMERCIAL ROAD, LONDON, E 1.

Phone: Ave. 6650 (4 lines). Wires: "Durastile, Phone, London."

ESTABLISHED 1839.

Write us for copy of New Illustrated Style Booklet and  
Patterns of New Acid-Proof Clothing.





“ . . . . and some  
have Greatness  
thrust upon them.”

. . . .

THE popularity of  
this Wild Cherry  
Pectoral came unsought,  
induced by the sheer  
merit of its formula.

Originally compounded for  
private use, ordinary busi-  
ness was not expected, since  
it was understood that most  
pharmacists prepared their  
own proprietary pectoral.

But somehow or other, with the  
passage of years a steadily growing  
demand for this Wild Cherry Pec-  
toral has arisen, and the time  
seems ripe to make known its  
merits to a wider circle.

Wild Cherry Pectoral is sold packed in  
4 oz. bottles in wrapped cartons, attrac-  
tively labelled as illustrated, price 10/- per  
dozen (6 doz. 9/6). Chemists' own name  
on label and wrapper free for orders of  
three doz. Also sold in bulk, price 1/5 lb.



THOMAS KERFOOT & CO. LTD.  
BARDSLEY VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1797.

COPYRIGHT



# SUPERFLORO

Regd. Trade Mark.

Only firm selling in bulk all the well-known and exclusive high-class perfumes, including—

**Chypre, Lorigan, Amber, etc.**

**TRIPLE EXTRACT** guaranteed manufactured from pure alcohol and natural flower essences, at prices below those imported from France.

**Natural Essences & Essential Oils** for all Toilet Preparations.

**NO SYNTHETIC.**

For quotations and samples apply to Sole Concessionaires of

**BERENGER FILS**  
PARIS & GRASSE (Established 1870)

**SUPERFLORO, LTD.**

5 HANOVER ST., REGENT ST., W.1.

Telephone - - - MAYFAIR 1060.

# ESSENCES

HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies  
FOR

**FRIES & BRO.** NEW YORK

The World-Renowned Makers of  
**FIRST QUALITY ESSENCES.**

PEACH  
APRICOT  
HONEY  
MAPLE  
&c.

Stocks  
in  
London.

Ask for  
Quotations  
& Samples.

**A. CONNELL & CO.,**

20 BEVIS MARKS, LONDON, E.C.3.

Phone : AVENUE 1945. Telegrams : "NITROZONE, LONDON."

"Own Name" Packed Goods  
for the Retail Chemist.

**"Newberys"**  
FRANCIS NEWBERRY & SONS LTD.

1923

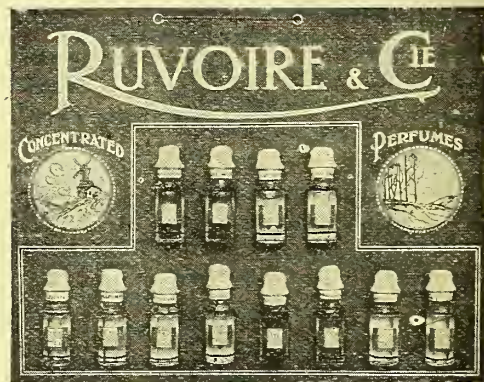
Established A.D. 1746  
and still packing

**TOILET REQUISITES &  
PHARMACEUTICALS.**

Our up-to-date quality, style, and finish is second to none. Competitive prices. Quotations for quantities and special attention paid to printing in customers' name and address on a large variety of labels. If you desire a special call from one of our representatives with any particular samples, please address postcard to :

**27-28, CHARTERHOUSE SQ.  
LONDON, E.C.1.  
AND AT CARDIFF.**

Only need showing  
and will  
**Sell Themselves**



Finest quality Concentrated Perfumes made from  
natural flower oils

PARMA VIOLET  
LILY OF THE VALLEY  
WALLFLOWER

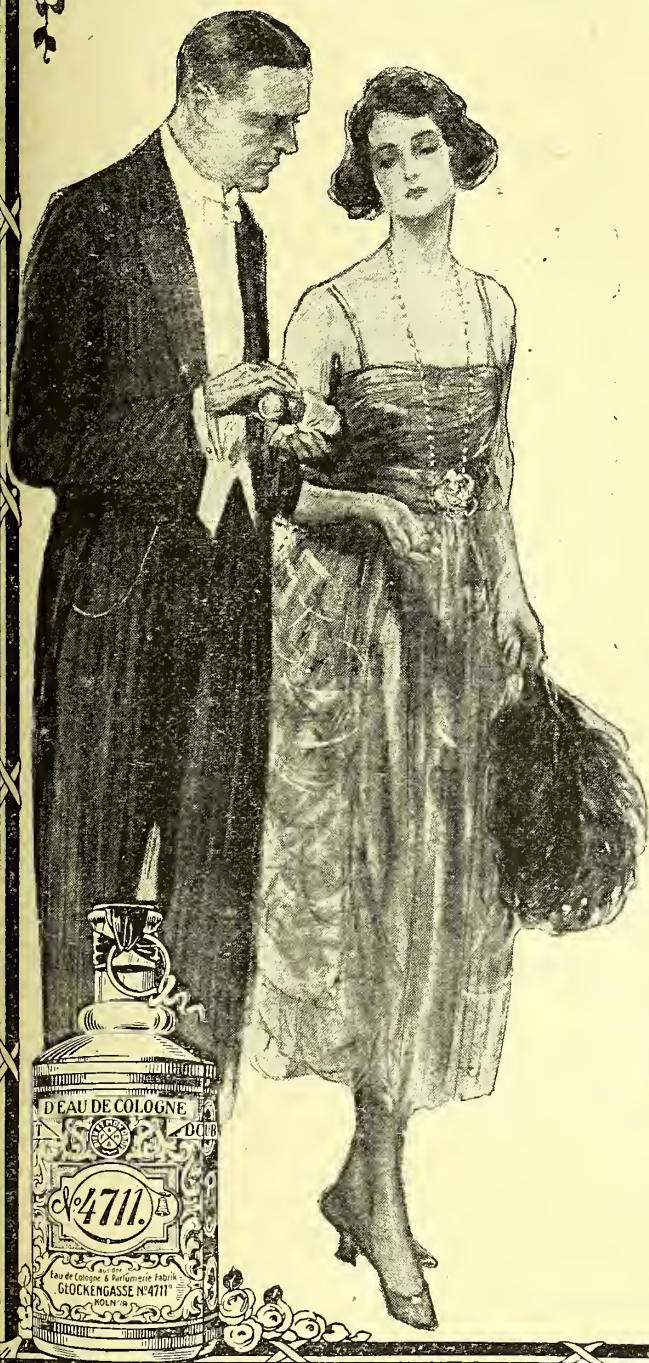
WHITE LILAC  
WHITE ROSE &  
SWEET PEA

Free from spirit. Supplied in High-Class Rod-  
Stoppered Hexagon Bottles.

**RUVOIRE ET CIE**  
154 Church Lane, Harpurhey, MANCHESTER.



# N<sup>o</sup> 4711. Eau de Cologne



## EXTRACT FROM LETTER

*received from customer carrying on a high-class business in a large Midland town.*

The letter was received quite recently, and only three weeks after he had been supplied with a parcel amounting to about £66 retail value:

“Since making our display of ‘4711’ we have sold nearly all, and are quite out of the 2/6 size. Will you please send us the following as soon as possible, terms as before.”

Here follows an order amounting to £50 retail value.

## “4711”

backed up by unequalled quality and extensive advertising is bound to bring you business, and it will always satisfy your customers.

*Sole Importer—*

## R. J. REUTER

69 Carter Lane, E.C.4





PHOTOGRAPHS a  
not later than fi

# Pears'

Displays  
to commence  
April 9th  
1923

£ 3 2 5 IN PRIZE

1st .....	£10
2nd .....	£5
3rd .....	£2

10 Prizes	in addition there are	£5 each
100 Prizes	... ..	£1 each

The photographs of the windows of the Three Principal Prizewinners will be published by A. & F. Pears, Ltd., in the leading local newspaper.

## CONDITIONS (Please read carefully)

1. The entrance qualification is a minimum order for £3 at wholesale rates, at least 50% of the money value of such order to be for Transparent Soap. 2. All orders to be in our hands by March 26th. No entries can be accepted after that date. 3. Each display to remain in the window for at least two weeks, from April 9th to April 23rd, and to consist principally of Pears' Transparent Soap. Pears' Golden Series and other lines may be shown, but should not be made the principal feature of the display. 4. A photograph of the display to be supplied to A. & F. Pears, Limited, with competitor's name and address on the back. 5. Each competitor must send with the photograph a brief written account describing the means adopted to develop the sale of Pears' Soap during the Competition. In judging these essays the efficacy of the methods employed only will be taken into account. Literary style will not be considered. 6. Each competitor enters on the distinct understanding that the decision of the Judges shall be final, and that the Judges cannot enter into any correspondence with a competitor with reference to the awards made.

## BONUS

With each £3 of goods ordered, a bonus will be given of  $\frac{1}{2}$  dozen medium size and  $\frac{1}{2}$  dozen bijou size of Unscented Transparent Soap. This represents nearly 6% on the retail value of the order. With a £6 order the bonus will be doubled, and so on in multiples of £3.

## JUDGING

Marks will be awarded for: (a) Excellence of display; (b) Good selling methods as described in the essays; (c) Percentage of increase of trade during March and April over corresponding period 1922. The Judges will be:—

The Editor *The Pharmaceutical Journal*.  
The Editor *The British and Colonial Pharmacist*.  
Mr. E. Willson, of Messrs. Kodak, Ltd.  
President of the British Association of Display Men.



SAYS must reach us  
1st, MONDAY, MAY 7.

# CHEMISTS' WINDOW DRESSING COMPETITION & ADVERTISING CAMPAIGN

## THE REASON

### *An important development in our business*

**T**his offer is made primarily for the purpose of gaining publicity for an important development of our business, but it is our wish that our friends in the Trade shall derive the utmost possible benefit and we placed this object in the forefront when formulating the scheme. We feel that there is today an imperative demand for a really good soap at a low price. We challenge anyone to produce a better than Pears' Unscented Transparent Soap, and we are, therefore, introducing what will in future be known as our

## No. 122 MEDIUM SIZE

(Unscented Transparent Soap) at what we are sure will be the popular price of  
**4½d. per tablet.**

The terms to you will be generous, viz., 41/6 per gross.

Behind the innovation we are putting the weight of a large and special expenditure on advertising in a selected list of daily, weekly and monthly newspapers, the aggregate circulations of which total over eight millions representing two-thirds of the total homes of Great Britain. We desire your hearty co-operation and we, therefore, ask you to cut out and fill in the form at the bottom of this page and post it to us to-day. This scheme must mean a great increase of business for you if you will co-operate with us in pushing sales. The form that co-operation shall take, in addition to entering for the competition, we leave to you.

Post  
this  
entry  
form  
to-day

Entrance orders for the Competition can be sent at once, and will be filled in strict rotation between March 1st and 31st.

## ENTRY FORM

*To Messrs. A. & F. Pears, Ltd.*

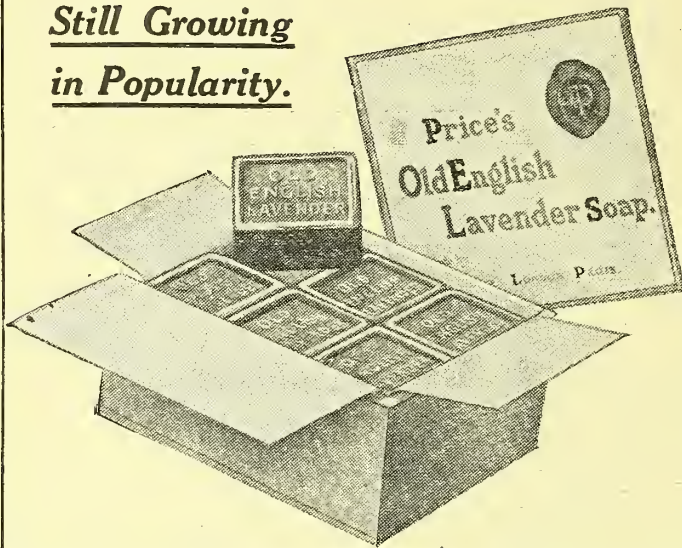
**I** AGREE to enter your window dressing competition and be bound by the terms and conditions set forth in the circular from which this form is taken. I enclose order for goods totalling £ \_\_\_\_\_

Signature \_\_\_\_\_

Address \_\_\_\_\_

# PRICE'S OLD ENGLISH LAVENDER SOAP

Still Growing  
in Popularity.



This exceedingly popular Toilet Soap is put up in the three following sizes :—

**VISITORS** in 12-cake boxes 14/9 per gross.

**ORIGINAL TOILET SIZE**

In 6-cake boxes 41/3 per gross.

In 12-cake boxes 39/9 per gross.

**BATH SIZE** 64/- per gross in 6-cake boxes.

All the above are packed in the neat, familiar wooden boxes.

N.B. We have specially reserved for Chemists an uncoloured Old English Lavender Soap, Toilet size, at the same prices as above indicated.

Terms and samples on application.

**PRICE'S, BATTERSEA**  
**LONDON, S.W.11.**

*Post the Coupon in Pears'*  
*Great Window - Dressing*  
*Competition To-day.*



SEE THE OTHER SIDE OF THIS PAGE



# Opportunity

When a customer comes along and says : " Can you give me anything for Scurf and Dandruff ? " Of course you have something to offer. But can you truthfully reply : " Yes, and I can positively *guarantee* that it will entirely free you from Scurf and Dandruff within a prescribed period. If it does not, your money is here waiting for you." If you can, and you know that your preparation will fulfil your promise, how much your business will increase and your personal prestige go up in the estimation of your customer ! Yet that is just what

## DR. PAGE BARKER'S SCURF & DANDRUFF LOTION

will assuredly accomplish, *and do it every time without fail*, no matter how long standing the case may be.

Among the hundreds passing your establishment every day, week in, week out, there are many who would give much more than 2/6 to obtain, not only freedom from Scurf and Dandruff, but the consequent relief from feeling that their personal appearance excited adverse comments, passed or inferred on the part of personal friends and acquaintances. All these hyper-sensitive folk and others are prospective customers if you

This is on our proposition based on a 3 dozen order—you can have less of course.

WITH FREE BONUS OF 3 BOTTLES.

You Pay out of your Till	You Put into Your Till	YOUR PROFIT IS
3 doz. at 18/- £2 14 0	36 Bots. at 2/6 £4 10 0 3 Bonus at 2/6 7 6 (free)	44% Selling - - £4 17 6 Cost - - £2 14 0
£2 14 0	£4 17 6	£2 3 6

WILL MERELY SHOW THE TELLING CARDS  
AND DISTRIEUTE THE LEAFLETS THAT  
ACCOMPANY EVERY ORDER.

Try it, and earn, as hundreds of others are earning  
to-day, good-will, higher estimation and an easy  
P.A.T.A. profit of

ON SELLING PRICE **44%** P.A.T.A. PROFIT.

SOLE SELLING AND DISTRIBUTING AGENTS :  
THOS. CHRISTY & Co., 4/12 Old Swan Lane, E.C.4



With the 3 dozen and Bonus of 3 bottles, we will give, too, 100 or more personal leaflets printed with your name and address.

Will you accept and take this opportunity that now lies within your grasp ?

Dr. Page-Barker's is a well-packed high-class line and is backed by the maker's **GUARANTEE OF MONEY BACK WITHOUT QUESTION** if it fails to do all that is stated.

SOLE PROPRIETORS : THE PAGE, BARKER Co., Grays Inn Rd., W.C.

18/-  
PER LOZ.

2/6  
RETAIL.

## A Better Sale A Better Purchase

Few of us nowadays are so short-sighted as to consider *only* the initial profit in sales.

We realise that the goods that are really profitable to stock are those which, once sold, bring steady repeat orders.

For example, the man who buys Forhan's For the Gums does so for a definite purpose, to protect himself against Pyorrhea. He goes on buying it for the same reason.

And he is further confirmed in his selection of Forhan's For the Gums by its unusual economy, so very little on the brush goes so long a way in cleaning teeth and protecting the gums.

Your customer makes a better purchase and you make a better sale when you sell one of these long-lasting tubes. For that first sale ensures steady successive profits.

If you do not already stock Forhan's For the Gums, write for terms and full trade particulars.

Thos. Christy & Co.  
4-12 Old Swan Lane,  
London, E.C.4.

**Forhan's**  
**FOR THE GUMS**  
More than a tooth paste  
—it checks Pyorrhea



# "Specialty" Liquid Paraffin B.P.

## KEENEST QUOTATIONS

As the largest Importers of Liquid Paraffins we are in the most favourable position to maintain supplies of standard uniform qualities at competitive prices.

"Specialty" Liquid Paraffin, bulked and tested by ourselves in our own laboratories, is a brilliant water-white oil (s.g., 890) and is brilliant at 0°c. It conforms strictly to all B.P. requirements, and is of the highest viscosity. Neatly packed in attractive white oval bottles, as illustrated, or in ordinary white flat or panelled flat bottles which emphasise the brilliancy of the contents. Full range of script and other reservable labels, on which Chemist's name and address can be printed, will be submitted on request. Samples and latest prices on application.

Write for them to-day.



## PACKED GOODS

All classes of Medicinal and Toilet Lines, including Toilet Paraffins and Brilliantines, Ointments, Cold Creams, Petroleum Jellies, etc., in most attractive packings at extremely fine prices.

SEND FOR LATEST  
PRICE LIST.

## SPECIALTY DEPT.,

ANGLO-AMERICAN OIL CO., Ltd.,  
Albert Street,  
Camden Town, London, N.W.1.



# STILL ON TOP!!

## EDWARDS' HARLENE TOILET SPECIALITIES

### THE WORLD'S BEST SELLERS



"HARLENE"  
FOR THE HAIR

"UZON"  
BRILLIANTINE

"CREMEX"  
SHAMPOO POWDERS

"ASTOL"  
FOR GREY HAIR

"ASTINE"  
VANISHING CREAM

"ASTINE"  
TOOTH CREAM

"ASTINE"  
SHAVING STICK

"ASTINE"  
NAIL CREAM

SUPPORTED BY WIDESPREAD PUBLICITY  
WHICH BRINGS YOU NEW CUSTOMERS DAILY

BE ABREAST OF THE TIMES.

FOLLOW THE TIDE OF SUCCESS.

Watch the Great Free Gift Advertising Campaign that brings the Customers to YOUR Shop.

No Chemist or Store can afford to be without this unique line of Toilet Preparations.

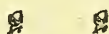
For Particulars, Terms, etc., write to

## EDWARDS' HARLENE, LIMITED

20, 22, 24 & 26 LAMB'S CONDUIT STREET, LONDON, W.C.1.

# A Good Resolution

*During 1923 only to  
serve the best procurable*



The Best Bath Tablets are  
**EUCRYL BATH TABLETS**

7½d. per box of 4.

The only Tablets for  
the Handbasin are  
**EUCRYL AQUALETTES**

9d. per box of 48.

---

*No Free Caustics. Immediately Soluble.*

---

Delicately Perfumed Tablets of  
**FROZEN FRAGRANCE**

---

---

*Write for Generous Introductory Terms to*

**EUCRYL, LTD.**  
**Shirley     =     =     =     Southampton**



# AN ATTRACTIVE & ARTISTIC LINE

## DEVON BLOOM VANISHING CREAM

In 2 oz.  
Opal Pots



**8/9**  
per doz.

**ATTRACTIVE SHOWCARD FOR WINDOW DISPLAY**

*(As Illustration above).*

**C. R. Harker, Stagg & Morgan, Ltd.**

DEVON WHARF AND BELL WHARF,

**EMMOTT STREET, MILE END, LONDON, E.1.**



# DEARBORN (1923) LTD.

37 Gray's Inn Road,  
LONDON, W.C.1.

## Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
<b>PILENTA SOAP</b> ...	10/-	1/-
A complexion soap.		
<b>PROLACTUM</b> ...	10/-	1/-
For the lips.		
<b>PARSIDIUM JELLY</b> ...	10/-	1/-
For wrinkles.		
<b>ALLACITE OF ORANGE BLOSSOM</b> ...	22/6	2/6
A dressing cream.		
<b>BORANIUM</b> ...	22/6	2/6
A hair tonic.		
<b>CLEMINITE</b> ...	22/6	2/6
For a face lotion.		
<b>COLLIANDUM</b> ...	22/6	2/6
For a face tint.		
<b>PERGOL</b> ...	22/6	2/6
A deodorant.		
<b>TEKKO PASTE</b> ...	22/6	2/6
Camphor cream.		
<b>STALLAX</b> ...	22/6	2/6
For a shampoo.		
<b>JETTALINE</b> ...	31/6	3/6
For clearing the skin.		
<b>PHEMINOL</b> ...	36/-	4/-
A depilatory.		
<b>MENNALINE</b> ...	36/-	4/-
For the eyelashes.		
<b>MERCOLIZED WAX</b> ..	31/6	3/6
A face cream.		
<b>STYMOL</b> ...	36/-	4/-
For oily complexions and blackheads.		
<b>SILMERINE</b> ...	22/6	2/6
Hair-curling fluid.		
<b>BARSYDE</b> ...	22/6	2/6
Dandruff eradicator.		
<b>TAMMALITE</b> ...	22/6	2/6
For grey and faded hair.		
<b>LIQUID PERGOL</b> ...	31/6	3/6
To check excessive perspiration locally.		
<b>BICROLIUM</b> ...	22/6	2/6
For whitening the bands.		
<b>HARAPOSA</b> ...	22/6	2/6
Nut oil shampoo.		
<b>COCONOIDS</b> ...	31/6	3/6
For figure development.		

### The Products of

Messrs. PARKER, BELMONT & CO.

<b>CLYNOL BERRIES</b>	36/-	4/-
For obesity.		
<b>SOFT PALERIUM</b> ...	45/-	5/-
For wrinkles.		
<b>LIQUID NAIL POLISH</b> ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

### COLONIAL DEPOTS AND AGENCIES.

**Australia:** ALL WHOLESALE, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.  
**South Africa:** LENNON Ltd, Cape Town, etc.  
**IVE BROS. & KARNOVSKY, Johannesburg.**  
**India:** FRAMJEE & SON, Bombay.  
**SMITH, STANISTREET & CO., Calcutta.**  
**New Zealand:** SHARLAND & CO., Auckland & Wellington.  
**South America:** DEARBORN (South America), Ltd., Calla Salta 264, Buenos Aires  
**Straits Settlements & Federated Malay States:** MEDICAL WALL, Ltd., Singapore.

## LINE THAT SHOW GOOD PROFITS



### Taylor's CIMOLITE PREPARATIONS

50 YEARS' REPUTATION.

Used in all Royal Nurseries and by the Nobility.

#### CIMOLITE TOILET POWDER.

Boxes, 1/12 (per doz. 9/6)  
Tins, 3/-, 5/6, 11/- (per doz.  
27/-, 49/3, 96/-)

Bottles, 3/3, 5/6 (per doz.  
30/-, 55/6)

#### CIMOLITE TOILET CREAM.

Collapsible tubes, 1/3 (per  
doz. 11/6)

#### CIMOLITE SOAP.

Per tablet, 8d.; per box 2/-  
(per doz. 3 tab. boxes, 20/-)

#### CIMOLITE FACE POWDER.

Boxes, 1/12 (per doz. 9/6)

Tins, 3/- (per doz. 27/-)

Bottles, 3/3 (per doz. 30/-)

#### CIMOLITE SOAP (Violet-Scented)

Per tablet, 8d.; per box, 2/-  
(per doz. 3-tab. boxes, 20/-)

#### CIMOLITE SHAVING SOAP.

Sticks, 1/3 (per doz., 11/6)

SHOWCARDS and Counter  
Bills on application.

NOW  
ON  
THE  
P.A.T.A.



Cimolite Prepara-  
tions are stocked  
by all wholesale  
houses.

ATTRACTIVE SHOW CARD obtainable from  
all wholesalers or direct.

PREPARED ONLY BY

JOHN TAYLOR, Manufacturing Chemist  
30 BAKER STREET, PORTMAN SQ., LONDON, W.1

## BEAUTY IN A CRATER

### Kemolite

Natures' Own Radio-Active Beauty Aid.

Show it with  
**POWDER & CREAMS**  
and build up Accumulative Repeat Sales.  
**TERMS: Selling Price 6/6**  
**Trade Price 54/- per dozen.**  
**£600 PRIZE CONTEST**

Write for particulars. Chemists' Sales Agents:  
For the Midlands and North also Scotland,  
**PENNEY & CO.**

Bigg Market, Newcastle-on-Tyne.

For London and the South including  
South Wales and the Eastern Counties,  
**SELLING SERVICE, LTD.**

Cavendish House, 20 Old Cavendish  
Street, London, W. 1

and all Wholesalers.





# Hypatia Soap

THREE SIZES

P.A.T.A.  
PROTECTED  
PRICES

Bath ..	..	9d.
Toilet ..	..	5d.
Visitors ..	..	2½d.

THE LAST WORD IN PERFUMED SOAP.  
EACH TABLET WRAPPED IN CELLOPHANE.*Write for Samples to*

**R. WHEEN & SONS, LTD.**  
Toilet Soap Makers. LONDON, S.E.8.

## EVERY CHEMIST KNOWS

Phone :  
HAMMERSMITH  
1605.

### Enolin

TOOTH PASTE

AND THE PUBLIC APPRECIATE IT

*Enolinsales bear  
large profits.  
Advertising  
matter liberally  
supplied.*

A NEW COMPANY, WITH ENTIRELY NEW BOARD,  
HAS BEEN FORMED, WHO ARE NOW SOLE  
MANUFACTURERS OF ENOLIN TOOTH PASTE.

*Your enquiries and orders are solicited by :***ENOLIN, Ltd., 201 King Street, Hammersmith, W.6.**

# Nuctone

Regd.



### What "Users" say:

The number of unsolicited testimonials to the wonderful results obtained with NUCTONE would fill a book.

Here are some of the words used to express their satisfaction—"Delighted," "Excellent," "More than pleased," "Nothing like it," "Just what I wanted," "So easy to apply," etc., etc.

## Has Solved the Grey Hair Problem

NUCTONE is the discovery of an eminent Hair Specialist. Restores the colour gradually, permanently, safely. Guaranteed free from any injurious ingredients such as sulphur or lead.

## Repeat Orders Assured

Customers who try NUCTONE continue using it, they are so delighted with the results. This means a steadily increasing business for the Retailer.

**Retail Price 6/6 per Bottle**  
**Trade Price 48/- , dozen**

*Manufactured by—*

**Stewart, Goodall & Dunlop, Ltd.**  
**4 Dering Street, LONDON, W.1**

*Stocked by Leading Wholesale Houses.*

# PAPIER POUDRÉ

TRADE

MARKS



"LEHCARESOR."

*Papier Poudre*

**British Made  
Goods.**

**Note our Trade  
Marks.**

*Beware of  
Spurious Imitations.*

REGISTERED



PAPIER POUDRE, LTD.,

46 Baker St., Portman Sq., London, W.1.  
and at Paris.

**WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets,  
2/8, 3/9, 5/- and 10/- per doz. net, respectively.**

## A NEW LINE IN PAPIER POUDRÉ.

**BOOK IN WHITE, ROSE or RACHEL TINTS, containing a neat Mirror,  
Price 1/-, at 7/6 per doz. net. This should make a good selling article.**

**SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per doz. net.**

NEAT MIRROR CASES, 1/6	...	...	...	...	...	13/9 per doz. net.
REFILLS to Mirror Cases in White, Rose or Rachel, 4d.	...	...	...	...	...	2/8 per doz. net.
8d. SHAVING PADS, for Use after Shaving (unscented), white only	...	...	...	...	...	5/- per doz. net.

## POPPŒA ROUGE

*A most popular line.*

(Regd.)

Made in booklet form. One size only, viz. 1/-, at 8/- per doz. net.  
Mirror Cases 1/6, at 13/9 per doz. Refills for same 6d., at 3/9 per doz. net.

**PAPIER POUDRÉ, Ltd., 46 BAKER STREET, LONDON, W.1**



Telegraphic Address :  
"Cresswell, Westcent, London."

WORLD'S HEADQUARTERS FOR

Telephone :  
No. 1432 Holborn.

# SPONGES

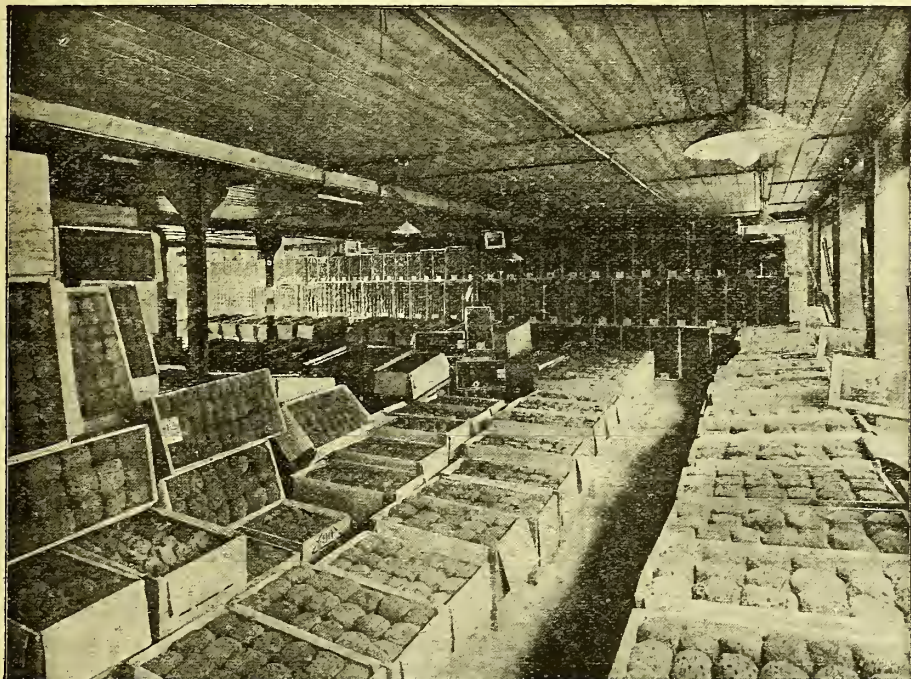
INTERNATIONAL SPONGE IMPORTERS, LIMITED.

## CRESSWELL BROTHERS BRANCH

*Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers,*

18 & 19 RED LION SQUARE, New Warehouses and Steam Bleacheries, LONDON, W.C.  
45½ EAGLE STREET,

**THE LARGEST DIRECT IMPORTERS WITH THE MOST  
EXTENSIVE SPONGE WAREHOUSES IN THE WORLD.**



View of one of the Floors (3,000 sq. ft.) where we have on show the Largest Stocks of Original Cases of Honeycomb and Turkey Sponges held by any House in the Trade.

WE  
OFFER  
THE  
BEST  
VALUE  
AT  
THE  
PRICES  
GIVEN.

BUYERS  
ARE  
INVITED  
TO  
CALL  
AND  
CON-  
VINCE  
THEM-  
SELVES  
OF THIS  
FACT.

The following abridged List will serve as a guide to Buyers when writing.

### UNBLEACHED MEDITERRANEAN SPONGES in Original Cases.

#### HONEYCOMB.

Extra Choice. The Pick of all the Fisheries. Finest Texture and Shape.		Average Price per Piece.	
Pieces in Case.			
300 Toilet at	...	9d.	
250 "	...	1/-	
200 "	...	1/6	
160 "	...	2/-	
140 "	...	2/6	
120 "	...	3/-	
100 "	...	3/6	
90 Medium Bath	...	4/6	
80 "	...	5/6	
72 "	...	6/6	
60 "	...	7/6	
45 Large	...	8/6	
30 "	...	10/6	

#### HONEYCOMB.

Toilet & Bath, Good 2nd Quality.		Average Price per Piece.	
Pieces in Case.			
270 at	...	6d.	
180 "	...	9d.	
170 "	...	1/-	
160 "	...	1/6	
140 "	...	2/-	
120 "	...	2/6	
110 "	...	3/-	
90 "	...	3/6	
80 "	...	4/-	
75 "	...	4/6	
70 "	...	5/-	
65 "	...	5/6	
60 "	...	6/6	

#### FINE TURKEY SOLIDS.

##### SELECTED SHAPES.

1st Quality.		Average Price per Piece.	
Pieces in Case.			
Nursery 200 at	...	1/-	
Toilet 150 "	...	1/6	
" 100 "	...	1/9	
" 100 "	...	2/-	
" 80 "	...	2/6	
Bath 50 "	...	3/-	
" 36 "	...	4/-	
" 24 "	...	5/-	

**IMPORTANT NOTICE.**—THE CONTENTS OF THE ABOVE CASES WILL BE PRESS-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST

#### LOOSE GOODS DEPARTMENT.

SPONGES IN SMALL PACKAGES. Fine Turkey. Fine Egyptian and Honeycomb. In 1st, 2nd and 3rd Qualities Bleached or unbleached (state which in ordering). On strings of 1 dozen pieces, or loose in bags. At per doz. : 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool, Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.



# BIDWELLS,

## New



## Design

### ADVANTAGES.

*Used up and down on the teeth it cleans in between them, and, if pressed down hard, the bristle will not crush. Short knots in extra hard white, yellow, or black bristle. Long knots always white. Ventilating holes in back, hole in handle for hanging up. Sterilized and sealed in transparent carton.*

WHOLESALE, 17/- doz.; 19/- HARD.

RETAIL, 2/3 each; HARD, 2/6 each.

CASTLE MILLS, AXMINSTER, DEVON.

# WHALEBONE HAIR BRUSHES

BEST LONDON MADE.

**WHOLESALE AND  
EXPORT ONLY**

PROMPT DELIVERY.

*Write for Prices and Samples.*

*The most complete Range  
in the Trade.*

Also Polished Horn,  
Fin Bone (Extra  
Fine Whale-  
bone).



*Write  
for Samples.*

## SHAVING BRUSHES

OF PURE BADGER,  
IMITATION BADGER,  
etc. Best London Made.

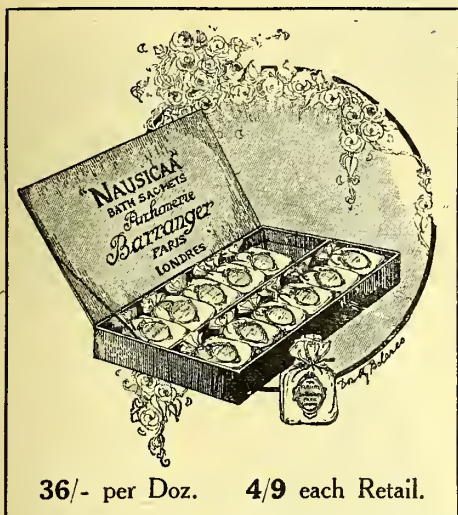
Do not fail to visit  
**OUR STAND, K 165, at THE  
BRITISH INDUSTRIES FAIR**

**JOHN FREEMAN, 10 Moor Lane, London, E.C.2**

Brush Manufacturer & Importer. Telephone: London Wall 1656. Factory: WALTHAMSTOW.



# FOR YOUR EARNEST CONSIDERATION



36/- per Doz. 4/9 each Retail.

## The Parfumerie Barranger

Offer the best that it is possible to produce,

And at competitive prices.

We advertise extensively,

Guarantee a substantial profit

And protect retail prices.

A perusal of the many complimentary letters from "Barranger" enthusiasts will convince you of these facts.

WRITE OR CALL FOR SPECIAL TERMS TO THE

**PARFUMERIE BARRANGER**

34 BUCKINGHAM PALACE ROAD  
LONDON - - - S.W.1.

***A London Stores Sold 325 Beaverpufs & 150 Refills in One Week. Approximate Profit, £36:0:0***

**CAN YOU AFFORD TO OVERLOOK THIS SURE SELLING LINE?**

EVERY week there are roughly 10,000 to 15,000 of our patent Powder Puffs sold. Are you getting your percentage of these sales? The Beaverpuf Series are the right goods, made right and sold at the right price.

The sales of our Famous B. 2 model have mounted up enormously during the last three months, proving beyond doubt the popularity this handy combined Powder and Rouge Puff is gaining.

Don't be misled by similarity of names, we specialise only in the Beaverpuf Series, one line and one line only, and four years of concentrated energy have brought these puffs to the position they hold to-day.

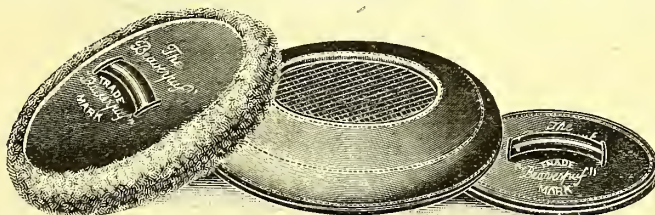
Get these puffs in your window and on your counter at once, they sell at sight and need no special display.

Made in High Class Leather Cases, any colour and with any tint of powder, with either Lambswool, White, Grey or Brown Fur Puffs, they can be obtained from any up-to-date Wholesaler or direct from Beaverpuf, Ltd.

**BEAVERPUF PATENT REFILLS (Powder or Rouge), 6d. each.**

Genuine  
Beaver-Musquash  
Powder Puff  
and Rouge Pad  
Combined.

Mousley's Patents.



MODEL B. 2.

7/6 each.

"The Ladies'  
Natty Friend."

**BEAVERPUF, LTD., Priest Bridge, London, S.W. 14**



Beautiful CUT-OUT with easel back. Shews straw hat one-half done with COLORITE. Lithographed in ten colours.



COLORITE DISPLAY STAND, made to hold six packages of COLORITE. Lithographed in nine colours.

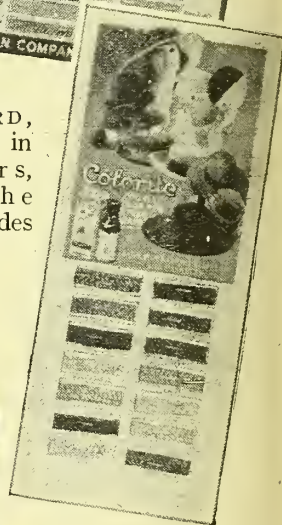


GIRL WINDOW TRIM. There will be six different heads, each with a different slogan, to go on the window.



A supply of two-page coloured LEAFLETS, naming the COLORITE colours and giving directions for using.

COLOUR CARD, lithographed in nine colours, shewing the different shades on real straw.



Lithographed CARD SIGN in five colours with a 4-inch easel for support (not illustrated).

## Free Colorite Display Material

Full set of highly attractive advertising matter, lithographed in colours, for display in window and on counter, sent free with first order for 3 dozen and upwards. See opposite page.



# Picture your shop with a display of the Colorite material shown on the opposite page

**T**HINK how these pictures, beautifully lithographed in 9 and 10 colours, will attract every feminine eye. No such display matter on behalf of a straw hat colouring has ever been circulated to the trade before. You can make your Colorite display the talk of the town. And you can sell

## Colorite



The generous Press advertising coupled with Colorite's reputation for making old straw hats look new will soon clear your shelf. Colorite time will be here any day. Fill in the coupon and post it now. The display material is sent free with first order for 3 dozen and upwards.

### STOCK COLOUR ASSORTMENTS

	Gross	6 Doz.	3 Doz.		Gross	6 Doz.	3 Doz.
Dull Black ...	48	24	6	Brought forward	117	58	23
Gloss Black ...	14	7	2	Grey, Dull ...	4	2	2
Navy Blue, Dull ...	18	8	4	Sage Green, Dull ...	3	2	1
Navy Blue, Gloss ...	6	3	2	Old Rose, Dull ...	4	2	2
Cadet Blue, Dull ...	6	3	2	Cardinal Red, Dull	4	2	2
Victory Blue, Dull	8	4	2	Cerise, Dull...	4	2	2
Burnt Straw, Dull	2	1	1	Lavender, Dull ...	3	1	1
Nigger Brown, Dull	12	6	3	Violet, Dull ...	3	2	2
Yellow, Dull ...	3	2	1	Natural, Gloss ...	2	1	1
Carried forward	117	58	23		144	72	36

To HENRY C. QUELCH & Co., 4/5 Ludgate Square, London, E.C.4.

Please send me/us your stock colour assortment of Colorite for.....(state quantity).

Name.....  
Address.....

# CHLOROPHYLL

HIGHEST QUALITY.

ABSOLUTELY PURE.

UNIFORM DELIVERIES.

CHLOROPHYLL C.  
CHLOROPHYLL CC.  
CHLOROPHYLL S.  
CHLOROPHYLL P.

Oil soluble. Blue Shade.  
Oil soluble. Yellow Shade.  
Water and spirit soluble.  
Soluble in 70% to 100% alcohol.

THE SANDOZ CHEMICAL CO. LTD., BRADFORD.

(2)

## "SAMBOY" HAIR TONIC

is made from the purest materials which combined, provide a genuine tonic, unrivalled in its beneficial effect upon the hair and scalp. It is called "a wonderful grower," and may be used by young and old without harm; is especially good in relieving irritation, and cleansing the scalp. It preserves the colour of the hair.

*To be obtained from maker on sale or return terms, but is a ready seller. Everyone likes "Samboy."*

"SAMBOY," 22 STRAND, RYDE, I.W.

## The Evan Williams ALWAYS IN GREAT DEMAND. PRICE LIST ON APPLICATION. The EVAN-WILLIAMS Co., Ltd., 18 Ogle Street, W.I. PINK STAMPOO.

### FIRST AID COLD CREAM

*How is your stock? Be ready for demand.*

A satisfied customer increases your turnover.

ORDER NOW. IN TINS OR IN BULK.

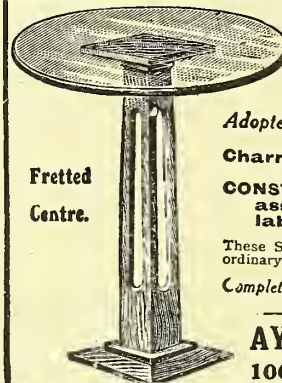
Barnetts Perfumery Ltd. 126-128 BRISTOL ST., BIRMINGHAM.

## SHOWCASES

UPRIGHT CENTRE CASES, WALL CASES,  
GLASS COUNTERS, MIRRORS  
WINDOW FITTINGS, GLASS SHELVES,  
SHOW STANDS, DRAWERS, DESKS  
CHECK TILLS, &c. Immense Stock.  
NEW and SECOND-HAND.

Ready for Immediate Delivery. For Sale or Hire.

FREDERICK MAUND  
169 Old St., LONDON, E.C.1.



## OAK PEDESTALS AND Plate Glass Shelves

*Adopted by Leading Window Dressers*

*Charming and Artistic Effects*

**CONSTANT CHANGE OF SHOW**  
assured. Window-dressing  
labour more than halved.

These Stands can be used in conjunction with ordinary rows of Window Shelves if desired.

Complete Sets 27/6, 50/-, 81/6, 96/6 & 97/6

AYRTON-GRAHAM, Ltd.  
106 Duke St., LIVERPOOL.

## CELLULOID and BONE TOOTHBRUSHES

SAMPLES AND PRICES ON APPLICATION.

## STANDARD BRUSH CO.

42/43 Gutter Lane  
LONDON - E.C.

TURN BACK ONE PAGE and give careful consideration to the COLORITE Profit-Making Opportunity you will find there!



# Sulphur for the Spring

**A** REALLY Good Spring Line, Sulphur, isn't it? If it is the right kind, of course.

Our Sulphur Tablets, made to the famous 426 formula, have two very strong selling points—they contain a really generous percentage of Cream of Tartar, and they are flavoured with a very effective oil of orange. The latter at once removes the old, and serious, objection of many to the Sulphur taste.

These are strong selling points—our sales in past years tell us that. And you can use them to your own advantage in pushing the line.

Our Sulphur Tablets are packed in very attractively coloured enamelled tins, 2 ozs. to each tin. They are quick sellers, and bring a handsome profit to the discerning pharmacist.

4/- DOZEN

3/9 DOZEN  
GROSS LOTS

Or in bulk.

	lbs.	-	4	7	14	28	56	112
426 ORANGE	per lb.	-	1/8	1/7	1/6	1/5	1/4	1/3
C QUALITY	per lb.	-	1/6	1/5	1/4	1/3	1/2	1/1

400 CARTONS WITH EACH CWT. FREE.

Attractive Show Matter Free

W. B. CARTWRIGHT, LTD., RAWDON, NR. LEEDS.

*The Nupines Window Dressing Competition.—Have you put in your display? If not, do so soon, for the closing date is February 28th. £111 to be won.*



## Chemists' Price List

### GLAXO and GLAXO MALTED FOOD

Retail Price per tin	Small Orders per dozen	In Original Cartons per dozen tins	Original Cartons contain
1/6 Glaxo ...	14/11 net	14/5 net	2 or 3 doz.
2/5 Glaxo ...	24/10 "	24/- "	1 or 2 "
4/5 Glaxo ...	44/8 "	43/2 "	1 or 2 "
7/6 Glaxo ...	74/6 "	72/- "	1/2 or 1 "
1/3 Malted Food	12/5 "	12/- "	2 dozen
2/4 Malted Food	23/2 "	22/5 "	1 "

Carriage paid on £3 orders for Glaxo, or Glaxo Malted Food, or on mixed parcels of the two lines.

Chemists willing to make Glaxo Malted Food their "Own Food" can obtain special terms on application to Glaxo Sales Department.

SPECIAL LINES	Retail Price	Trade Price per doz.
Glaxo No. 1 (Half-Cream)	2/6 per tin	24/- net
Glaxo No. 2 (Three-quarter Cream) ... ..	3/- "	28/10 "

## Glaxo Accessories

	Retail Price	Cost to Retailer
Glaxo Complete Feeder (8 oz.) ... ..	1/6 in carton	13/6 per doz.
Glaxo Spare Feeder (8 oz.)	1/- "	9/- "
Premature Feeder (4 oz.)...	1/6 "	13/6 "
Miniature Feeder (2 oz.) ... (boxes contain 2 complete feeders)	1/9 each, or 3/- pair	13/6 " (2 in box)
Glaxo Teats (7 kinds) ...	4d. each	3/- per doz.
Nursling Teat ... ..	9 1/2d. "	8/6 "
Glaxo Valves ... ..	3d. "	2/3 "
Aluminium Food Measure	6d. "	4/6 "
Feeder Mop ... ..	4d. "	3/- "
Maternity Belt (2 sizes) ...	9/6 "	7/6 each

Chemists can obtain Miniature Feeders direct, at 2/6 per box, postage included, by sending postal order to Glaxo Sales Department.

Glaxo Teats are supplied in the following seven varieties:—Ordinary (1 Medium Hole), Fine Hole, 1, 3, or 5 Leech-bite, Blind and Premature. The Nursling Teat is an extra large one for special purposes.

Maternity Belts measure 9 in. or 10 in. deep in front, and depth required should be specified when ordering. Cash must accompany order, and belts cannot be sent on approval.

Carriage paid on 3 doz. Complete Feeders; also on Teats, Valves and Maternity Belts.

**GLAXO SALES DEPARTMENT,**  
56 Osnaurgh Street, LONDON, N.W.1.

# VITAMOGEN

(VITAMINES)

INVALUABLE FOR  
SLEEPLESSNESS  
NERVOUS DISORDERS  
CONVALESCENCE  
AND  
INFANTS.

*To be obtained of All  
Chemists, or direct from*

**VITAMOGEN, Ltd.**

(DEPT. C)

2/426 Holborn, LONDON, E.C.1.



# BRAND'S ESSENCE

of Beef, Mutton or Chicken  
consists solely of the juice of  
the finest meats, prepared  
with the greatest care under  
the most hygienic conditions.

Essential in the Sick Room.

Sold by all Chemists and Stores.

**BRAND & CO., LTD.**

Mayfair Works, Vauxhall, LONDON, S.W. 8.



# Maltine

the DIGESTIVE NUTRIENT

TRADE MARK

*Over Forty Years' Reputation*

MALTINE (Trade Mark)  
 MALTINE with COD LIVER OIL  
 MALTINE with C.L.O. and HYPO.  
 MALTINE with CASCARA  
 MALTINE with CREOSOTE  
 Etc.

MALTOLINE (Trade Mark)  
 MALTINE with HYPO.  
 MALTINE with IRON  
 MALTINE with PARAFFIN  
 MALTO-YERBINE (Trade Mark)  
 Etc.

MALTINE MANFG. CO., 9, HOLBORN VIADUCT, LONDON, E.C.1

# Maltoline

TRADE MARK

ALL CHEMISTS  
 SHOULD STOCK

## ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Over 40 years' Reputation.  
 "Abdine" is the most popular Health Drink, superior to all Mineral Waters. The Original and only genuine Fruit Drink.  
*Reduced Price List can be had on application.*

DUNCAN McGLASHAN, LTD., ABDINE WORKS, WESTFIELD ROAD, EDINBURGH.

## REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

GOLD LEAF AND GOLD POWDERS

WHOLESALE ONLY.

E. WINTER & CO., LTD.

Head Office: 64 Cheapside, London, E.C.2. Telephone: Central 985

## Dr. DE JONGH'S

LIGHT BROWN

## COD LIVER OIL

IN IMPERIAL HALF-PINTS, 4/-

ANSAR, HARFORD & CO., LTD.

182 Gray's Inn Road - - LONDON

SOLE CONSIGNEES.

## VITAMINAX BRAND

# PURE LOFOTEN COD LIVER OIL

*Manufactured by Johan Didrichsen, Kristiania, Norway.*

ESTABLISHED 1890.

*Proprietor of Elle Fabriker.*

All possible care has been shown from the very first in the production of this Oil in order to maintain the highest degree of **Vitamines**.

*Wholesale only.*

*Tel. Add. : " Johandi, Kristiania."*

# Have you got YOUR particulars of the GREAT PRIZE Distribution Scheme

to be run by the Proprietors  
of the Pioneer of Health Salt

## "NATURAL" HEALTH SALT

There will be 303  
Prizes for Retailers—  
amounting to £175

as follows :—

1st Prize .. .. .	£50
2nd Prize .. .. .	£25
3rd Prize .. .. .	£12 10/-
100 Prizes of 10/- .. .. .	£50
100 Prizes of 5/- .. .. .	£25
100 Prizes of 2/6 .. .. .	£12 10/-

An extensive advertising scheme will win the interest of your customers in their Prize Scheme. For your trade Natural Health Salt is right in every way—Quality, Price and Profit. Show it in your windows, on your counters, in your display stands. The advertising will do the rest, and you may win one of these handsome prizes. You will certainly do more business.

Order your season's stock now, and get busy on your end of the Prize Scheme.

New Showcards, Window Bills, and Handbills Supplied

### WILKINSON & SIMPSON, LTD.

The Pioneers of Health Salt - NEWCASTLE-ON-TYNE

Phone :  
138 Pendleton

Telegrams :  
"Champagne Manchester."  
ESTABLISHED 1855.

## VIN FERRICITRATIS, B.P.

### Liebig's Beef & Malt Wine

### English Port Style

British and Foreign  
Wines of all varieties  
Bottles and Casks.

Specially low-cut prices for the Autumn 1922.

## B. ROBINSON & Co. Ltd.

PENDLETON - MANCHESTER.

WRITE TO-DAY AND COMPARE OUR TERMS.



## Saint-Raphael

Tonic, Restorative,  
Digestive Wine.

Known throughout the World,  
and prescribed in all cases of  
ANÆMIA, DEBILITY, and CON-  
VALESCENCE, to Young Women,  
Children and the Aged.

DOSE : One wine-glass after the  
two principal meals.

Recommended by—  
PROF. BOUCHARDAT, Professor of  
Hygiene, Paris Faculty of Medicine.  
DR. MACNAUGHTON JONES, London,  
England.

"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Roson Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolie, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphaël' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet*, London, England.

"St. Raphaël Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—DR. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome,  
FRANCE

To be obtained from all  
Wholesale Druggists.



## NEW TERMS

# 80%

profit on cost.

*Burgoynes*  
*Universal*  
*Fruit Saline*

per **2/3** bottle  
P.A.T.A.



**A liberal supply of advertising  
matter is sent with each order.**

May we have your enquiry before  
placing your requirements for the season?

BURGOYNE BURBIDGES & CO. LTD.

EAST HAM, LONDON, E.6.

# Gelatines

Fine Leaf Gelatine, Pure Calf.  
**"Albion" Brand** (In 1-lb. Packets,  
 112 x 1-lb. to Case)  
*Made in England.*

FINE CRYSTAL GELATINES.  
 PURE SKIN GELATINES.  
 POWDERED GELATINES.

*Samples on Application.*

**OURY, MILLAR & CO.** 9 MINCING LANE,  
 LONDON, E.C.3.

Telegrams: "Olmenth London."

Telephone: Avenue 4978.

ESTABLISHED 138 YEARS.

**R. J. FULLWOOD & BLAND'S**



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**WORLD-RENOVED  
 Dairy Preparations**  
 command the largest sale  
 in Great Britain and  
 Ireland, and are used and  
 recommended at the  
**PRINCIPAL DAIRY  
 INSTITUTES.**

**ANNATTO  
 RENNET**

"Oleo" and "Sunbeam" Butter  
 Colour, Essence of Rennet, etc.

31, 33 & 35 Beviden St., Hoxton, London, N.1  
 And Rennet Works, Ellesmere, Salop.

DR. HALE'S  
**VIN-SANGUIS**  
 WINE FOR THE BLOOD

**Fountain of Health**

If you have a  
 Wine License we  
 will pay the fee.

If not, get one,  
 we will pay.

*Send for any*

You agree to display  
 "Vin Sanguis" always.  
 You give us an  
 agreed initial order.  
 You always keep stock  
*further particulars*



PROPRIETORS OF  
 DR. HALE'S VIN-SANGUIS

**Transcontinental Agencies Ltd**  
 14, Southampton St., London, W.C.2

**MADE WITH OLD DOURO PORT**



## **Lorimer-Marshall, Ltd., for PACKED GOODS**

Cod Liver Oil Emulsion

Children's Cough Mixture

Children's Tonic

Balsam of Honey

Honey & Lemon Linctus

Lung Tonic    Tonic Elixir

Meat & Malt Wine

*AT KEENLY COMPETITIVE PRICES.*

**LORIMER-MARSHALL, LTD., 12 Tower Hill, London, E.C. 3**

Works Telephone : New X 2119.

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## **ATKINSON & BARKER'S INFANTS' PRESERVATIVE**

THE BEST AND SAFEST INFANTS'  
MEDICINE OF OVER 120 YEARS' STANDING.

Prices and Terms on application to R. BARKER & SON, Ltd.  
13 Wesley St., C.-on-M., MANCHESTER.

**DOES  
NOT  
CONTAIN  
any  
SCHEDULED  
POISON.**

# **WINCARNIS**

**Sells readily ALL the time**

COLEMAN & CO., Wincarnis Works, NORWICH.

### **IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES**

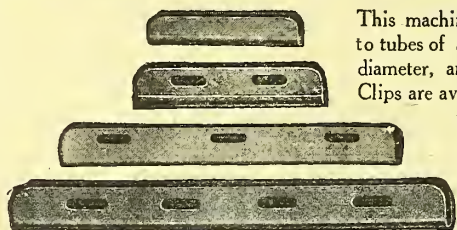
It has been established  
by law that Registered  
Chemists may sell  
"Wincarnis" with  
Quinine *without a*  
licence.



# TWO COLTON SPECIALITIES

## FOOT POWER CLIP FASTENER AND NICKELOID CLIPS

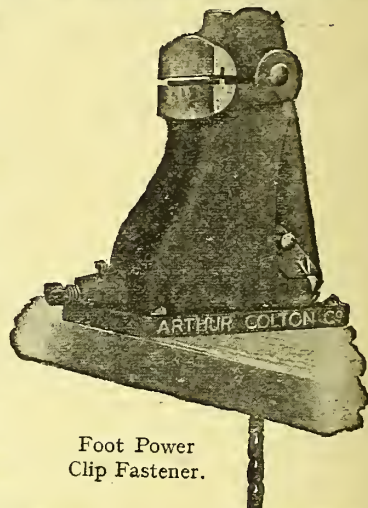
Will simplify the difficult problem of effectively sealing the ends of collapsible tubes, and at the same time produce an attractively finished article, uniform in appearance and in the permanence of the seal.



Clips made in all sizes for tubes from  $\frac{1}{4}$ " to  $1\frac{1}{2}$ " diam.

This machine is designed to fasten clips to tubes of all sizes, from smallest to  $1\frac{1}{2}$ " diameter, and a corresponding range of Clips are available for immediate delivery from London stock.

We shall be pleased to send complete Specifications of Tube-filling, Closing and Clip Fastening Machines on receipt of full details of your requirements.



Foot Power  
Clip Fastener.

Sole  
British  
Agents:

## JOHN J. GRIFFIN & SONS, LTD.

KEMBLE STREET, KINGSWAY, LONDON, W.C.2.

ESTABLISHED 1898

**E. FORSHAW & SON LTD** Tel. 123.  
SOAP AND CHEMICAL PLANT MAKERS.  
WARRINGTON, ENGLAND.

SOAP & CHEMICAL BOILING PANS  
STEAM JACKETED PANS  
MIXING PANS  
EVAPORATORS, STILL S  
AND EVERY DESCRIPTION OF  
SOAP AND CHEMICAL PLANT

ESTABLISHED 1898  
Telephone 123

**E. Forshaw & Son Ltd**  
SOAP AND CHEMICAL PLANT MAKERS  
WARRINGTON, ENGLAND.

**MILLED TOILET SOAP PLANT.**  
HOUSEHOLD AND LAUNDRY SOAP PLANT.  
GLYCERINE EXTRACTION PLANT.  
CAUSTICIZING PLANT.  
TALLOW MELTING PLANT.

No 1 Plant for experimental purposes

No 2 Plant Output 100 to 200 pounds per day

No 3 Plant Output 300 to 400 pounds per day

No 4 Plant Output 800 to 1000 pounds per day

No 5 Plant Output 2000 to 2500 pounds per day

No 6 Grant Bridge lined plodder Output 2 tons per day

No 7 Improved multiple roller, mulling and mixing mill, made with 8 drive rollers. This mill may be used in conjunction with our No 6 or No 7 plodder. Output 3 tons per day

No 8 large combined triple granite roller mill with triple rotary cutter. Granite rollers 72 inches long 26 inches diameter

No 8 mill with roller with reduction gear for motor drive. Output 2 tons per day

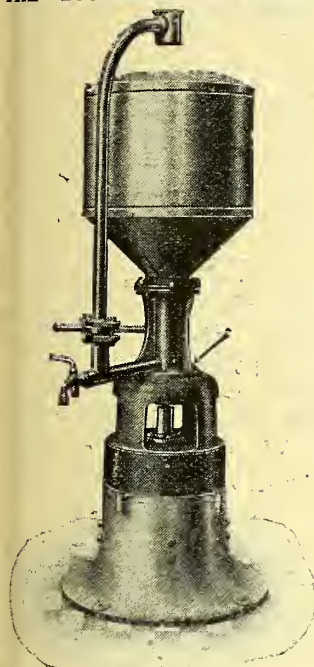
Toilet Bar Cutting Machine

Rotary Cutter or Shredder

No 6 Grant Quadruple Roller Mill Output 2 tons per day



## THE "BOOTHROYD" EMULSIFIER



MOTOR DRIVEN.

## MIXING & EMULSIFYING— —IN ONE PROCESS!

THE "BOOTHROYD" EMULSIFIER, the prototype of its class, when first placed on the market some years ago revolutionised the then known processes of emulsifying, eliminating the tedious stages of the work, carrying out the mixing and emulsifying in one process and, at the same time, producing an emulsion of almost indefinite keeping qualities.

The 1923 Model embodies all the features which have made the machine famous, and by slight modification of the mechanical design the facilities for cleaning have been improved: it being possible—by removing four bolts only—as indicated—to dismantle the whole of the working parts in less than thirty seconds, and after cleaning they may be replaced as easily and almost as quickly.

The machine is capable of dealing with all kinds of egg, lichen, mucilage and gum emulsions, pastes, creams, juleps etc., the time required for the completion of the process being from twenty minutes to one hour.

It is made in two types—Motor Driven (as illustrated), the motor being contained in the base, and Belt Driven—either being absolutely self-contained and requiring wiring or belting up only. The power consumption is from  $\frac{1}{8}$  to  $\frac{3}{4}$  B.H.P. according to the consistency of the material.

PRICES	MOTOR DRIVEN (Code MOMUL). Complete with Switch and Starter	£65	When ordering Motor-Driven Machines give (1) Supply Voltage; (2) Whether Direct or Alternating; if Alternating, state the Frequency and number of Phases.
	BELT DRIVEN (Code BLMUL). Complete with Fast and Loose Pulleys and Belt Striking Gear	£50	

TERMS.—HOME TRADE: Delivery f.o.r. Bootle, cases charged but credit in full allowed if returned within 14 days. Net Cash 10th of month following despatch for approved accounts.

EXPORT: Packing for shipment and delivering f.o.b. Liverpool, £3 extra, either type. Net Cash on advice that machine is ready for shipment.

## H. T. BOOTHROYD, LTD., BOOTLE, Liverpool

Telegraphic Address: "COMMUTATOR," LIVERPOOL.

Telephone: 420 BOOTLE.

## GARDNER'S PATENT

## "RAPID" SIFTERS & MIXERS

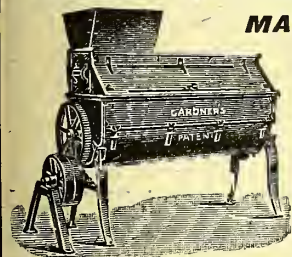
### MANY THOUSANDS

working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.

FOR HAND OR POWER.

CATALOGUES FREE.

WM. GARDNER & SONS (GLOUCESTER) Ltd.  
Engineers, GLOUCESTER.



## BRITISH INDUSTRIES FAIR CASTLE BROMWICH

FEBRUARY 19th to MARCH 2nd.

"B" Building,  
Exhibit Block  
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No. 185.

Don't fail to pay us a visit and see our  
latest Improved  
**BOTTLE WASHING MACHINERY  
and BOTTLING APPLIANCES**

DAWSON BROS.

Ventor Works, LTD.

Gomersal, nr. Leeds

Also London.

Deliver  
your

Prescriptions,  
Syphons,  
Specialities,  
&c.,  
IN SECURITY.

Send for List  
C.D. 522

W. B. STUBBS & SON (Estab. 1836) Progress Works,  
Hawthorn, NOTTS



**HARVEY'S**

Watts' Embrocation, or Curb Bottle.  
Aconite Powders.  
Worm & Condition Powders.  
Watts' Red Lotion.  
Hair-Restoring Ointment  
Edos, or Tasteless Purging Powder.

# HARVEY'S

## Great

### Remedies for the Horse

Protected Prices  
(P.A.T.A.)

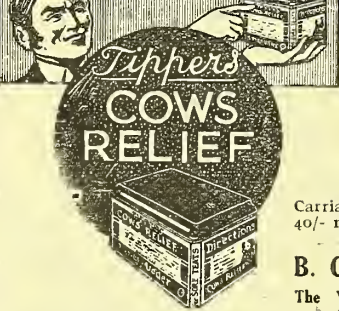
**HARVEY'S**

Koppas Powder.  
Parasiticide.  
Thrush Specific.  
Hoof Ointment.  
Hair Restorer (Human)

Of all the leading Druggists' Sundries Houses.

**HARVEY & COMPANY, Ltd., Dublin.**

Every Wise Farmer  
Uses



**RETAIL PRICES:**  
3/-, 7/-, 15/-, and  
23/- per tin.

Invoiced to the  
Trade at

2/9, 6/6, 14/6, and  
22/6 respectively,  
and subject to 20%  
discount.

Carriage paid on orders of  
40/- net. Postage charged on  
small lots.

**B. C. TIPPER & SON,**  
The Veterinary Chemical Works,  
BIRMINGHAM.

**Cataline prevents and cures inflammatory  
Diseases in Cattle.**

**TO THE TRADE.**

Are you stocking

**CATALINE?**

If not, **now** is the time to send us your orders.  
During this month we are posting 200,000 circulars to 200,000  
Farmers and all Live Stock Owners.  
Many of these **are your customers.**

**They will be asking YOU for Cataline.**

Cataline Pleases Your Customers  
IS  
WHAT **CATALINE** YOU  
WANT  
The Sales will Please You

One Size. One Price. Retail at 1 doz. and 3 doz. Cases Free  
Face Value, namely, 3/9 per bott. 6 doz. Cases charged 2/- each

Our best cash with order, carriage paid, prices are:—

1 dozen	3 dozen	6 dozen
37/-	36/- per doz.	35/- per doz.

Write now for particulars of new 5 per cent.  
bonus offer.

**Stocked by most Wholesale Houses**

**THE CATALINE CO., BRISTOL.**

**BATTLE'S VERMIN KILLER**

provides the shortest cut to the extermin-  
ation of rats and mice. Certain death follows  
a nibble of the poison when laid as directed.

**BATTLE'S VERMIN KILLER**

Are your stocks adequate for 1923?

Of all Patent Medicine Houses at 3/-, 5/6, and 9/- doz. packets.  
To retail at 5d., 8d., and 1/3 each (P.A.T.A.).

Prepared only by

**BATTLE, SON & MALTBY, LINCOLN.**

T.A.: "Battle's, Lincoln." T.N.: Lincoln 36.

**BATTLE'S VERMIN KILLER**

# Specially Packed Lines for Chemists

**DISINFECTANTS**

Carbolic and Pine Fluids.  
Pink Carbolic Powder,  
Carbolic Tooth Powder.  
Cloudy Ammonia

**VETERINARY**

Approved Sheep Dips.  
Horse Condition Powders.  
Colic Drinks. Drenches.  
Foot rot Cures. Fly Oils, &c.

**HORTICULTURAL**

Seed Dressings. Formalin.  
Weed Killers. Lawn Sand, &c.

EMBROCATIONS, &c.  
Household and Veterinary.

Write for Prices, Samples and Labels.

**BATTLE, HAYWARD & BOWER** (formerly Battle, Maltby & Bower), Victoria Chemical Works, Lincoln.





## Sales Greatly Increased. No Signs of Falling Off.

Mr. F. Fearnley, Chemist, Guiseley, writes: 18/12/22, "I have had a very successful 'Rodine' Show. My sales have increased greatly, and do not show any signs of falling off."

## "Well Worth Pushing."

Mr. S. Hewitt, Chemist, Ashton-under-Lyne, writes: 20/11/22, "I am satisfied with the result of Window Display which is a great attraction and has helped the sale of other lines."

It pays to push "Rodine." Show it and it sells. It yields nearly 100% protected profit. Get it direct from the maker on best terms.

**T. HARLEY, Manufacturing Chemist, PERTH, Scotland.**

Continuous and Steadily Advertised Goods  
FOR DESTROYING RATS AND MICE

## DANYSZ VIRUS

Retail Price (protected).

Net Wholesale Prices.

Vi us for Rats and Mice, single tube, 2/-

.. 15/- per doz.

3 tubes, 5/-

Vi us for Mice only - single tube, 1/6

.. 9/- " "

3 tubes, 3/-

Dated-expired tubes returned to us postage paid will be exchanged

free of charge.

## Danysz Virus in Liquid Form

Retail Price.

Wholesale Price.

Quart Bottles 6/- each

4/6 each

Pint " 4/6 "

3/9 "

## HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or 33 1/3% cash with order.

	Retail	Monthly a/c	Cash with order.
1/2 gall. tins	10/-	7/6	6/8
1 " "	18/-	13/6	12/-
5 " "	80/-	60/-	53/4

## DANZO BEETLE POWDER

For destroying Black-bettles, Cockroaches, Crickets, &c.

Retail Prices (protected).

Wholesale Prices per doz.

In tins 3d.

In boxes of 2 doz. 2/1

" 6d.

" " 1 " 3/8

" 1/-

" " 1 " 7/5

" 2/6

" " 1 " 18/-

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS.

To be obtained from

**HALLER LABORATORIES, LTD.,**  
325 Borough High Street, LONDON, S.E.1

Telegrams: "Virudana, Sedist, London."

Telephone: Hop 2717

# WATERGLASS

(140° TW :)

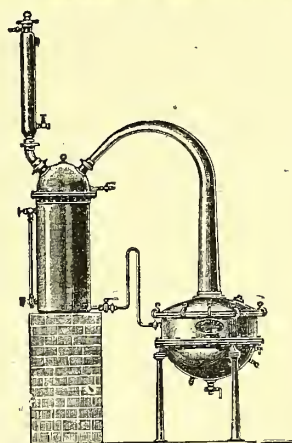
In 1, 2, 4 and 7 lb. TINS

SMARTLY LABELLED.

Please apply for Quotation

(WITH SPECIMEN LABEL).

**NEWBALL & MASON**  
**NOTTINGHAM.**



**STILLS, VACUUM STILLS, VACUUM PANS.**  
EVAPORATING PANS.

AUTOClaves AND DIGESTORS.

**SPECIAL APPARATUS AND PLANT  
FOR MANUFACTURING CHEMISTS.**

Sole Makers of Bennett's Patent "Ideal" Annular  
Film Condensers. Shears' Patent Muler.

**BENNETT, SONS & SHEARS, LTD.**

Engineers & Coppersmiths,

43 & 44 Shoe Lane,

LONDON, E.C. 4. 2

# Collapsible Tubes



You can be sure of  
getting

**The Best Service  
and Delivery,  
The Highest Quality & Finish  
The Lowest Current Prices**

FROM

## *Beit's & Co. Ltd.*

*1. Wharf Rd., City Rd.*

*London N.1.*

*Established 1857*

## MENTION ROBINSONS' MAKE

WHEN ORDERING FROM  
YOUR WHOLESALE HOUSE  
YOUR NEXT SUPPLY OF

## PILL BOXES



BRITISH MADE BY BRITISH LABOUR.

SUPPORT HOME INDUSTRIES.

### ROBINSON & SONS, LTD.

BOXMAKERS TO THE  
CHEMIST TRADE

### CHESTERFIELD.



# For us, 1923 is a record WATERGLASS season.

**Chemists everywhere are buying GOODALL'S  
handsome, High Quality Low-price pack.**

□ □ □

**Perfect packing methods alone enable us to offer  
such 'cut' prices for so high-grade a product.**

□ □ □

**G**OODALL'S Waterglass has for many years now been the standard of quality and price, but this year we are offering our customers better value and a better-selling pack than ever.

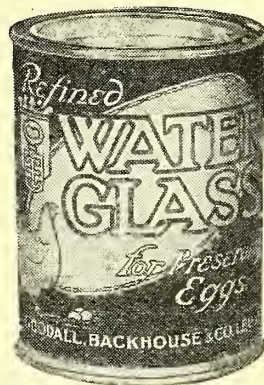
New labour-saving, motion-saving methods have reduced packing costs to the minimum ; in the popular 1 lb. and 2 lb. sizes, printed tins (which cannot discolour or fade or lose their freshness) have replaced the old labelled tins ; deliveries will be prompt and complete ; and the Waterglass itself remains of the same old, customer-satisfying quality.

Again our Waterglass is the handsomest pack on the market—it *looks* quality, and with the bright colours and effective design of the tins, effective, sales-making display is made very easy.

## Showcards for Easy Window Display

are sent out with every order. These cards are written to sell the goods and tell how easy it is to preserve eggs successfully. Display these cards and the tins very prominently from March onwards if you want your share of the ever-growing trade in Waterglass.

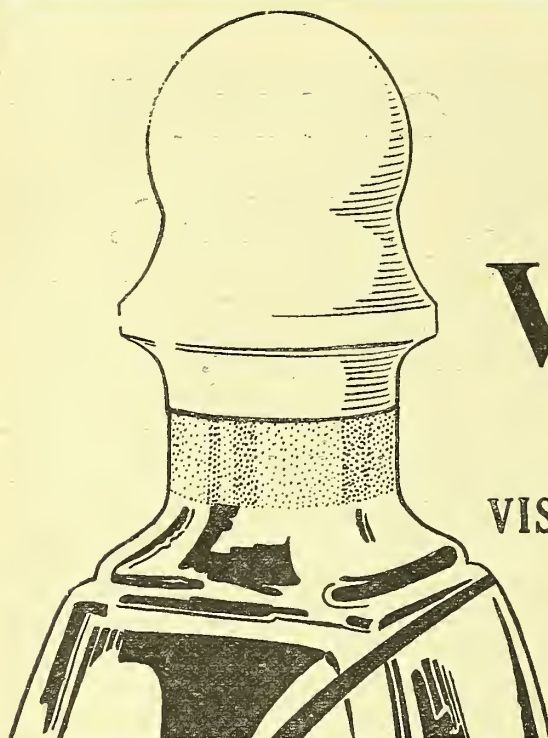
Special quotations for contracts and large quantities. Please let us know your requirements, and we will quote promptly.



# Remember—GOODALL'S for WATERGLASS.

**GOODALL, BACKHOUSE & CO., LEEDS.**





# The Original and Only SELF-FIXING **VISCOSE** BOTTLE CAPS

Made and Sold ONLY by  
**VISCOSE DEVELOPMENT CO., LTD.**  
**BROMLEY - KENT.**

*The Patentees and Manufacturers.*

**IMMEDIATE DELIVERY.**

Made in all Sizes, in *Opaque and Transparent,*  
White or Coloured.

## POSTCARD ENLARGEMENTS

*1 dozen from the same negative*

B. & W. per dozen **2/3**      Sepia per dozen **3/-**

**D. & P. 12-hour Service.**      **Cheapest & Best.**

*Developing Roll Films*

All sizes up to—

$\frac{1}{4}$ -plate, 6 or 8 exposures, **4d.**       $3\frac{1}{2} \times 3\frac{1}{2}$  **1/2** per doz.

Postcard and  $5 \times 4$  ... **5d.**       $4\frac{1}{2} \times 2\frac{1}{4}$  **1/5** "

$\frac{1}{2}$ -plate and  $7 \times 5$  ... **8d.**       $\frac{1}{4}$ -plate **1/8** "

12 exposures, 50% extra.      Postcard **1/11** " "

*Printing*

All sizes up to—

**SHAWYER & CO., SWINDON, WILTS.**

## PHOTOGRAPHIC ENLARGEMENTS.

Quality Work at the Right Price.  
Prompt Delivery. Good Profits.

TRADE LIST FREE ON REQUEST.

**Wallace Heaton, Ltd.**

17-27 CHANGE ALLEY, SHEFFIELD.

Introduction of the producing method of

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## Wills

MR. WILLIAM CHARITY, 14 Park Road, Wallington, Surrey, of W. Charity & Sons, drug and chemical agents, who died on November 21, left estate of the gross value of £1,307 10s. 5d., with net personalty nil. Probate of the will has been granted to his widow, Mrs. Annie Eliza Charity.

MR. THOMAS ASHLEY JEFFREY, retired chemist and druggist, 3 Pittvale Villas, Cheltenham, who died on November 28, left estate of the gross value of £1,082 10s. 8d., of which £894 18s. 6d. is net personalty. Probate of the will has been granted to his sons, the Rev. Russell Henry Jeffrey and Percy Shaw Jeffrey.

MR. ARTHUR LE BLANC NEWBURY, Elmhurst, Manor Road, Barnet, senior director of Francis Newbery & Sons, Ltd., 27 and 28 Charterhouse Square, E.C., who died on January 14, left estate of the gross value of £5,188 16s. 4d., of which £5,039 13s. 9d. is net personalty. Probate of his will has been granted to his daughter, Miss Edith Grace Beatrice Newbery, of the same address, and his son Percy le Blanc Newbery, and Herbert William Milnes, Haworth, Manor Road, Barnet.

## English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

### Chemists' Defence Association, Ltd.

The twenty-second annual report of the Chemists' Defence Association, Ltd., which will be presented at the annual meeting on March 21, states that the membership received a net addition of 280 during the past year. The payments under the heading "Claims for Damages and Legal Expenses" (£2,109 14s.) are the largest in the history of the Association. Benefits have been extended to include third-party public liability risks arising in or about members' places of business. A proposal to extend the defence benefits still further will be submitted at the annual meeting, and the directors explain that they are prepared to add benefits from time to time if able to do so. Further details are given in the report. The income and expenditure account shows that subscriptions amounted to £5,693 11s. 7d. in a total income of £6,291 1s. 3d. The cost of salaries and wages was £1,146 7s. 9d., of directors' fees £296 2s., and of directors' fares £171 17s. 2d. The Association contributed £44 19s. 3d. to the "Anti-Cutting Record," and £59 9s. 10d. to the "Year-Book." The excess of income over expenditure was £1,479 2s.

### Safeguarding of Industries

Under Section 10 of the Finance Act, 1922, the Treasury has exempted from the duty imposed by Part I. of the Safeguarding of Industries Act, a number of articles, among them being the following:

Toilet oils ready for use as such, and dutiable only by reason of containing dutiable perfumes as ingredients, provided that such oils are unmedicated. The goods following, if they are dutiable only by reason of containing dutiable chemicals as a part or ingredient, that is to say: (a) Fireworks, including aluminium torches; (b) sporting cartridges; (c) bath salts ready for use as such; (d) grease-paints ready for use as such; (e) toilet soaps, toilet creams, toilet powders, toilet depilatories, tooth pastes, and tooth powders, unmedicated, and ready for use as such.

Toilet and medicinal preparations and disinfectants and flavouring mixtures which are dutiable only by reason of containing as ingredients dutiable chemicals, provided that the value of such dutiable ingredients does not exceed 10 per cent. of the aggregate of the values of all the ingredients of that article.

The Board of Trade have received formal notices of complaint under Section 1 Sub-section (5) of the Safeguarding of Industries Act that "Rochelle salts" and formaldehyde have been improperly included in the lists of articles chargeable with duty under Part I. of the Act. These complaints will be submitted in due course to the Referee appointed by the Lord Chancellor for the purposes of the sub-section, and any person interested should communicate immediately with the Assistant Secretary, Board of Trade (Industries and Manufactures Department), Great George Street, S.W.1.

### Public Institution News

Miss Jackson has been appointed dispenser at the Westminster Guardians' outdoor dispensary at Princes Row, Buckingham Gate, London, S.W.1. The post was formerly held by Mr. J. Hassall France, chemist and druggist, who has secured his qualification in medicine.

At the recent annual dinner of the St. Pancras Board of Guardians (London) the clerk to the Board, in proposing the toast of "The St. Pancras Board of Guardians," made special reference to the work and long service as a guardian of Mrs. Idris, who had earned the title of "Mother of the Board." Mrs. Idris is the wife of Mr. T. H. W. Idris, J.P., a past-President of the British Pharmaceutical Conference.

In view of the efforts to obtain security of tenure of office for dispensers in the poor-law service, the action



taken by the Bristol Board of Guardians is of interest. Copies of the following resolution have been sent to the Prime Minister and the Minister of Health: "That steps should be taken to amend the poor-law orders as to the tenure of office of chief officers of poor-law institutions so that guardians shall have power to dispense with the services of such officers by a majority resolution of members of the Board present deciding the same." It is hardly likely that this attempt to remove security of tenure will receive general support.

### Wine Licence Applications

Wine off-licences have been granted at Brewster Sessions to the following applicants connected with the drug-trade:—

Messrs. T. Butterfield, Outwood, Wakefield; Garratt Chamberlain, Rugby; A. Coulthard, Sawston; C. Cumberland, Wakefield; W. L. Hodgson, Wakefield; Peter Lcech, Helsby; J. Scholes, Oldham; W. Smith, Rugby.

The following applications have been refused:—

Messrs. I. Howells, Pembroke; A. R. Powell, Connah's Quay; J. W. Sampson, Ph.C., Hucknall; Timothy White Co., Ltd., Barnstaple.

### Inquests

Miss Winifred Louise Polley, described as having been dispenser to a London chemist, and for some weeks out of employment, vanished from her home at Birch, Essex, on January 31, and was on February 18 found drowned in a pond, her pockets being weighted with stones. At the inquest some extracts from her diary were read. Under date January 9, she had written: "It is the only thing left to do, as there are no prospects." A verdict of "Suicide during temporary insanity" was returned.

In the course of an inquest held at Southend, on February 20, on the bodies of a Mr. and Mrs. Burgess and their two children, who lived in Silverdale Avenue, Westcliff, three letters written to the deceased woman by Stanley Duncan Willis, Westborough Road, described as a chemist's assistant, were referred to by the coroner, who read one of them. In the witness-box, Willis, in answer to questions, admitted friendship with Mrs. Burgess, but denied that her husband had objected. Eventually a verdict was returned to the effect that Burgess had committed murder and suicide while insane.

The Kent coroner held an inquiry, recently, concerning the death of the wife of Mr. James Bourke, of the physics department of Birkbeck College, who resided at Gillingham. Death took place in the Larkfield Maternity Home, and the evidence showed that a certified midwife administered two "twilight sleep" injections at an interval of three hours. The midwife stated that a doctor was subsequently telephoned for, but that the patient died just as one arrived. The Coroner: Is it the practice to give these doses on your own responsibility without the patient first being examined by a doctor?—Yes, sir. A medical witness deposed to finding evidence of valvular disease and fatty degeneration of the heart during the *post-mortem* examination, and was of opinion that the anæsthetic could not account for the death. In summing up, the coroner said it did not appear to be the practice in all cases for the doctor to see patients before they were given a dose of "twilight." It was a point which struck him, as a layman, as one not altogether desirable. The facts would be reported to the Midwives' Board, and if they had any observations to make they would be made to the proper quarter. A verdict of "Death from natural causes" was returned.

### Birmingham

Mr. E. W. Mann, Ph.C., who has passed through a trying illness of late, has returned to his duties.

Dr. Maxted gave an address on "Catalysts and their Poisons" before the University Chemical Society on February 19.

The Birmingham section of the British Industries Fair was opened at Castle Bromwich by the Lord Mayor of Birmingham on February 20.

The death of Professor von Röntgen (*C. & D.*, February 17, p. 227) recalls the fact that Major Hall-Edwards, a city councillor of Birmingham, produced the first radiograph seen in Birmingham on February 5, 1896, and as a result a successful operation was performed at the Queen's Hospital.

Mr. S. R. Carter, M.Sc., A.I.C., who addressed the local section of the Society of Chemical Industry, on February 20, on Ph. and its significance, is the son of a pharmacist at Oswestry. The "universal indicator" of The British Drug Houses, Ltd., was referred to, and interesting tests were made with it. The passing round of the cigarette box by the secretary was evidently much appreciated.

### Leicester

Mr. E. A. A. Fry, chemist and druggist, has been elected chairman of two of the largest ward associations in Leicester.

The authorities in Leicestershire are paying close attention to the stock-in-trade of market-place pill and drug vendors, and samples have been taken. It is understood that the extent of the sale of aspirin and other tablets is also being inquired into.

To celebrate ten years of work by the Leicestershire Insurance Committee, Councillor J. W. West, J.P., chairman, gave a reception at the Victoria Hall, Leicester, on February 14. There was a large attendance of county chemists, and Mr. R. W. Brownlow, J.P., Melton Mowbray, chairman of the Pharmaceutical Sub-Committee, gave a breezy review of the labours of Insurance chemists.

### Liverpool

Blizzard-like spells of weather hold back the anti-spring displays.

Mr. A. D. Rutter, Seaforth, has a window glistening with the medicinal oils of Allen & Hanburys, Ltd., this effect being obtained by projecting the electric light through the exhibits.

As a sequence to Mr. Harold Wyatt's address on "Dispensing Notes," the suggestion is made that any exceptional prescription should be brought to the notice of the Liverpool Chemists' Association.

Mr. J. R. Charlton, representative of Evans Sons Lescher & Webb, Ltd., requests us to thank his friends and customers for their kind expressions of sympathy on the occasion of the death of his father.

Referring in advance to the third annual dinner of Merseyside Pharmacist Freemasons on February 21, a non-Masonic pharmacist said: "I would become a Freemason if business and Chemists' Association work allowed me time."

The Council of the Liverpool Chemists' Association, in response to requests by members, has agreed to revive the annual dinner, and the banqueting hall of the Exchange Station Hotel has been booked for March 14. For the Benevolent Fund smoker the Adelphi has been secured for April 11.

To celebrate the extension of the canteen opened by Ayrtton, Saunders & Co., Ltd., in September, a whist-drive and dance were held on February 16, when a very pleasant evening was spent by a large company. The management of the canteen is in the hands of a committee elected by the staff as a sub-committee of the works committee, representative of the directors, departmental managers and staff. The latest of the many popular resolutions of the works committee is to compile a long-service list of the male and female employees with at least twenty-five years to their credit. The list already contains thirty-three names, the earliest date being 1868. A works library contains hundreds of volumes and gifts of books from many parts of the world.

### Sheffield

Mr. J. E. Crowe, Grimesthorpe Road, is following the fashion by having a sale.



Mr. Colin Gibson, son of Mr. J. C. Gibson, has again obtained the highest number of marks for growing standard wheat and oats in Hamiota.

Retail chemists in Sheffield feel that more educational facilities should be available in the district; otherwise they will be handicapped in securing suitable apprentices.

Dr. Smith Whittaker and Mr. Hutchinson, chemist and druggist, from the Ministry of Health, took oral representations from chemists whose prescriptions have been tested, and held an official inquiry at the Town Hall on Thursday. The proceedings lasted five hours. (C. & D., 1922, II., page 847.)

Mr. George Taylor (Geo. J. Taylor & Co., Ltd., manufacturing chemists, London Road), who was taken ill suddenly on February 12, is, we understand, making satisfactory progress towards recovery. Mr. Taylor appreciates the numerous inquiries that have been made.

A meeting will be held in the Town Hall on March 2 and 3, under the auspices of the Royal Sanitary Institute, when discussions will take place on extraneous matters in food and the prevention of disease by feeding, to be opened by Mr. J. Evans, F.I.C., Ph.C., and Professor E. Mellanby respectively. On March 3 visits will be paid to the Corporation Sewage Works, Wincobank, and the works of Newton, Chambers & Co., Ltd., Thorncliffe.

### Miscellaneous

**POISON-LICENCE APPLICATION.**—The South Shropshire Farmers, Ltd., Craven Arms, has applied to the local authority for a licence under Section 2 of the Poisons and Pharmacy Act, 1908.

**TURPENTINE** on a motor-lorry passing through Wavendon on its way from London to Northampton, on February 20, caught fire and was destroyed. The quantity is estimated at 1,000 gallons.

**ROYAL VISIT TO WORKS.**—The Duke of York visited, on February 20, the soap works of John Knight, Ltd., Silvertown, London, E.16, making himself acquainted with various manufacturing processes.

**SACCHARIN CASES.**—At Bow Street Police Court, London, on February 16, H. G. Roberts and A. R. Earle, merchants, were respectively fined £485 ls. and £291 ls. for offences connected with uncustomed saccharin (C. & D., February 17, p. 215).—At Old Street Police Court, on February 16, Benjamin Axford, confectioner, Treadway Street, E., was fined £15 for a similar offence.

**ATTEMPTED-POISONING CHARGE.**—At Bow Street Police Court, London, on February 15, the hearing of the charge of attempting to poison the Chief Commissioner of the Metropolitan Police (C. & D., February 17, p. 215), was concluded. Mr. John Webster, analyst to the Home Office, deposed to finding arsenic in chocolate creams submitted to him, the amounts in three instances being  $\frac{3}{4}$  gr., 6 gr., and  $\frac{1}{2}$  gr. respectively. Eureka weed-killer contained arsenic in the same form. The accused was committed for trial at the sessions of the Central Criminal Court commencing on February 19. The case had not been reached at the time of going to press.

**SALE OF FOOD AND DRUGS ACTS.**—In Camberwell during the past quarter, five samples of camphorated oil were analysed by the public analyst, and one was found to be 31 per cent. deficient in camphor. Proceedings were taken against the vendor, who had to pay £1 3s. costs. In Lambeth during the same period, three informal samples were reported against—camphorated oil, Gregory's powder, and iodine tincture.—For the quarter ended December 31, 1922, the Hull city analyst reports that of the 215 samples of foods and drugs examined, 19 were adulterated, and 15 were of a suspicious character. The adulterated samples included one of lime water, and those of a suspicious character one of lime water and one of camphorated oil.

**IN THE COURTS.**—At Hants Assizes, on February 13, Edgar Charles Sheringdon, described as a dispenser, was sentenced to five months' hard labour for breaking into the premises of Timothy White Co., Ltd., chemists, Sandown, by whom he was formerly employed,

and stealing money (C. & D., February 17, p. 214).—At West Ham Police Court, on February 15, C. Yan, a Chinaman, was sentenced to three months' hard labour for importing and being in possession of opium.—At Mansion House Police Court, on February 17, Sidney William Pearce, described as a dispenser, was sentenced to twelve months' hard labour for obtaining the sum of £1 by false pretences. Eight previous convictions were proved.

**POISONING.**—A verdict to the effect that death was due to nephritis and pneumonia accelerated by an overdose of copaiba taken as a medicine was returned at the inquest at Rotherham on February 16 on Isaac J. Swain (41), a bricklayer's labourer, who died at the Union Hospital. Stanley Webster, Parkgate, described as a chemist, stated that the mixture had been supplied by one of his assistants and contained oil of juniper, oil of copaiba, and sweet nitre. He was questioned by the coroner as to whether it would not be wiser to have directions as to the dose on the bottle. Webster replied that purchasers knew how to take it, and they were usually given verbal instructions as to the dose. There was no danger in the mixture that he knew of. The coroner expressed the hope that witness would give the matter serious consideration.

**P.D. FOOTBALL CLUB.**—The football match between teams representing the London College of Pharmacy and Parke, Davis & Co., played on Hounslow Heath on February 17, resulted in a win for the students by three goals to two, the scorers being Pearson (two) and Jones for the Cyanides, and Hutton and Harris for P.D. Mr. Brebner acted as referee. On an adjoining pitch the game between the P.D.F.C. first eleven and the A.S.C. (Hanworth Park) resulted in a draw (1—1). All four teams and friends and supporters, numbering about 500, adjourned to the firm's dining hall after the match, to partake of tea, after which there was music. Some of the Welsh students from the London and South of England Colleges of Pharmacy opened the programme with one of their national songs; Dr. J. S. White followed with two very humorous items, and after Miss Turner had given a recitation, games were indulged in while the room was being prepared for dancing, which went on till 11 p.m. At tea-time Mr. C. W. Gosling, Ph.C., introduced Mr. J. G. Miller, the London College sports secretary, and Mr. R. Perkins, the captain of the football team, who proposed and seconded a vote of thanks to Messrs. Parke, Davis for the "Good game, the hot baths and hospitality." Mr. P. J. A. Cathcart, the superintendent of the laboratories, suitably replied.

**PRIVATE ARRANGEMENT.**—The creditors of Mr. John McLanachan, chemist, Audley, Newcastle-under-Lyne, were called together recently, at the offices of Bournier, Bullock & Co., Hanley, when a statement of affairs was presented which showed liabilities of £419 5s. 9d. There were also fully secured creditors for £125, who held securities valued at £270. The assets consisted of stock-in-trade, £180; fixtures, fittings and utensils, £30; household furniture, £100; and surplus from secured creditors, £145; making a total of £455, from which had to be deducted £66 13s. 9d. for preferential claims, leaving net assets of £388 6s. 3d. It was reported that the debtor took over the business at Audley rather more than three years ago, the purchase price being £675, which was satisfied by a cash payment of £500 and the balance by quarterly instalments. For a considerable period the business was a profitable concern, but latterly the takings had fallen off. The debtor's solicitor mentioned that it was desired to continue the business, and that assistance would be forthcoming from a relative of the debtor's, who might take over the business. A resolution was passed agreeing to accept payment in full spread over a period. Mr. Parkin S. Booth (Association of Manufacturing Chemists, Ltd.) was appointed to act as nominee of the creditors. The following are among the creditors:—Ayrton, Sanders & Co., Ltd., £83; Griffiths Hughes & Co., £10; R. Hovenden & Sons, Ltd., £36; May, Roberts & Co., £67; Southall Bros. & Barclay, Ltd., £16; Sangers, £38.



## Irish News

### Chemists' Dental Society

Arrangements for the amalgamation of the Chemists' Dental Society of Ireland with the Chemists' Dental Society of Great Britain and Ireland were confirmed at the adjourned annual meeting of the former body held recently in Belfast, over which Mr. F. T. Smith, J.P. (Antrim), presided. The secretary (Mr. J. D. Carse) explained that their Society was to join in with the larger body as a branch, but was to retain its own secretary and officials. The President and secretary would be *ex-officio* members of the Council in London. They were to get the same insurance benefits as the English members, paying the same membership fee, which would in future be payable to London headquarters, and not to the local secretary. The following office bearers were appointed:—*President*, Mr. F. T. Smith, J.P., Antrim (re-elected). *Messrs.* Thomas Robb, Belfast; Thomas Mitchell, Belfast; John Leavy, Mountmellick, Queen's County; Joseph Moffett, Belfast; *hon. secretary*, Mr. J. D. Carse, Woodstock Road, Belfast; *hon. secretary for Southern Ireland*, Mr. Bennett, Cahirciveen, co. Kerry.

### Dublin

The General Council of the County Councils, acting in conjunction with the Local Government Department of Dail Eireann, invite tenders up to March 3, 1923, for supplies of drugs, medicines, and disinfectants for six months, April 1 to September 30, 1923. Tenders are received by the Minister of Local Government Department (Trade Branch), Dublin.

At the Quarter Sessions Court, recently, a young man, Christopher White, of Bankside Cottages, Milltown, co. Dublin, was awarded £200, workman's compensation, with costs, in respect of a fractured skull sustained through falling from a ladder while employed by Mr. J. Smith, chemist, of Terenure Road, Dublin, last November. The applicant had previously received £60 from Mr. Smith during incapacity.

## Scottish News

### Edinburgh

An oxygen factory is to be erected in Leith shortly.

A woman named Fraser committed suicide while on a visit to Edinburgh, recently, by drinking a quantity of lysol.

Lieutenant-Colonel D. J. Graham, O.B.E., M.D., has been appointed surgeon-apothecary to His Majesty's Household at Holyrood Palace, in succession to the late W. B. Alexander, L.F.P.S. (see *C. & D.*, December 16, p. 840).

The attention of shopkeepers is called by the police to the fact that within the past few weeks spurious £1 Treasury notes have been passed in shops in the city. The notes referred to bear the letter and figures U No. 831867 with a slight variation in the last two figures of the number. These notes can easily be detected as spurious by damping any part and rubbing, when it will become blurred.

With the object of instituting a vocational section on pharmacy in British and Irish rotary, a list of rotarians engaged in pharmacy and allied callings has been compiled. It is proposed to hold a luncheon of rotarian pharmacists during the British Rotary Conference at Scarborough in May, when the section will be properly organised and constituted. Any chemist who has recently joined a Rotary Club should communicate with Mr. T. Stephenson, F.R.S., D.Sc., Ph.C., 6 South Charlotte Street, Edinburgh, who is acting as interim convener of the section, so that his name may be added to the list.

## South African News

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

### Rhodesia

AFTER a prolonged drought (writes our Bulawayo correspondent) Rhodesia has again been relieved by welcome rains. The scarcity of water in Bulawayo became so serious that supplies had to be pumped from adjoining mine shafts, and as this source did not fully respond to the B.P. test for aqua dest., we are glad once more to draw from our sterilised tanks of rain-water, which after boiling stands the argent nit. test.—As the result of the Referendum, the voting in this territory went largely in favour of Responsible Government for Rhodesia, it is anticipated there may be some pharmaceutical legislation enacted when the new form of government is established. We do not require too many laws, but just enough, for the dabbler in drugs and chemicals.

### Transvaal

BUSINESS generally is very slack at present (writes a Johannesburg correspondent), this being the aftermath of the Christmas boom.

PERSONAL.—Mr. Geo. Mack has returned from an extended holiday in Scotland, and has resumed work at his pharmacy in Ophirton.

MASONIC NEWS.—Mr. John George, a former secretary of the Pharmaceutical Society, was installed as Master of the Commonwealth Lodge in Johannesburg in December, and has for his deputy Bro. Hetherington, a well-known pharmacist and a P.M. of the same Lodge. Among a large attendance at the installation ceremony were noticed quite a number of pharmacists.—Mr. J. A. Williamson, chemist and druggist, Springs, is the W.M. of the Coalfields Lodge, and holds a prominent position in Springs R.A. Chapter.

BUSINESS CHANGES.—Mr. J. S. Ferguson, President of the Transvaal Pharmaceutical Society, has severed his connection with Flemings, Ltd., and has been succeeded by Mr. W. Last, from Pietersburg, Transvaal.—Mr. W. A. J. Cameron, business manager of the South African Institute of Medical Research, has been appointed President of the Medical and Pharmacy Board of the Transvaal for a period of three years.—Mr. H. M. Potter, of Germiston, has disposed of his business in Railway Street, the purchaser being Mr. S. Mure.—Miss C. Hofs, one of the few lady pharmacists in the Transvaal, has taken up a position as manageress in a Potchefstroom pharmacy.

## The Pharmaceutical Society of the Transvaal

### THE SHOP HOURS ACT

SINCE the last report the Committee of the Pharmaceutical Society of the Transvaal, under the presidency of Mr. J. S. Ferguson, has been very active on various matters pertaining to pharmacy. The first act of the Committee was to call a general meeting of the members for the purpose of discussing the new Shop Hours Act. A largely-attended and enthusiastic meeting was the result, and the speakers were all unanimous in condemning the provisions of the Act as unworkable. The hours appointed for chemists were: 8 a.m. to 6.30 p.m. on Mondays, Tuesdays, Thursdays and Fridays, and Wednesdays 8 a.m. to 1 p.m., reopening for one hour, 6 to 7 p.m.; Saturdays, closing hour 6 p.m.; Sundays, 11 a.m. to 12 noon, and 6 to 7 p.m. Chemists were allowed to keep open shop for one hour after the general dealer, but during that privileged hour they were debarred from selling any article which might not be a surgical or medical necessity. The members present wholeheartedly condemned this condition, and while some were for defying the law, others suggested that the chemists should not take advantage of the privileged hour,



and so deprive the public of the opportunity of procuring medicines on Wednesday evenings, Sundays and holidays, and after 5 p.m. on any day. It was hoped by this action that the general public would make such a protest that the Provincial Council would be compelled to alter the Act. This suggestion not finding favour with the meeting, a consensus of opinion was taken as to what hours would most generally suit chemists, and it was conceded that the closing hours most suitable would be 6.30 p.m. on week days, 7 p.m. on Saturdays, with one hour's attendance on Wednesday evening and two hours on Sundays and holidays. The meeting decided that a deputation wait upon the Administrator of the Transvaal to discuss the matter, and Messrs. Ferguson (President), G. Chrisbee (Vice-President), R. Mackintosh, C. Young, and the hon. secretary were appointed members of the deputation. This deputation proceeded to Pretoria and were received by the Hon. J. G. Robertson, who gave the members a patient and sympathetic hearing and promised that the matter would be laid before the Provincial Council in February. Meanwhile, however, the Act, not having been promulgated, has now been scrapped, and chemists have reverted to the hours as laid down at the meeting held in February, 1920. It is also noticed that many members have been keeping open beyond these hours. This finishes the Shop Hours Act for the time being, and the Committee is on the *qui vive* for what may happen in February, 1923. Incidentally, it may be stated that strong efforts are being made to abolish all Provincial Councils in the Union.

#### AN ATTACK ON THE TITLE

In the draft of the Medical, Dental and Pharmaceutical Bill the words "Chemist and Druggist" have been deleted and the title "Pharmacist" has been inserted. Strong exception has been taken to this alteration. Most of the members of the profession consider that this is intended to filch the good old title from chemists and substitute that of the little known one, "Pharmacist." The Committee of the Society had a petition of protest circulated among all chemists in the Transvaal, and practically every chemist signed this petition, which has been forwarded to the Minister in charge of the Bill. Several Members of Parliament have been asked to interest themselves in the petition and there are quite a number who have promised to do so. The results are awaited with considerable anxiety. This Bill, consolidating the Acts of the four provinces of the Union, is 13 years overdue, so that it will be seen that chemists are anxious to have the Act become law that they may have uniform laws and regulations for pharmacy throughout the Union. The following is a copy of the protest above referred to:—

DEAR SIR,—In asking you to sign the enclosed protest the Committee of the Pharmaceutical Society of the Transvaal wish to place the following facts before you:—

As you are no doubt aware, the Medical, Dental and Pharmacy Bill will be introduced early in the next Parliamentary session, and, as the measure is long overdue, it will probably be pushed forward and passed without delay.

In the Draft Bill it is proposed to substitute the word "pharmacist" for "chemist and druggist" as our registered title. This change is looked upon by your Committee, after full consideration and discussion on several occasions, to be one of the greatest importance to every chemist and druggist in the Union, and it is their unanimous opinion that it should be strenuously resisted. To this end they have formulated the protest referred to, and earnestly request your signature. The reasons which have weighed with your Committee are as follows:—

(1) No change of title has been asked for either by the chemist and druggist in the Union, and it is their present title of chemist and druggist appears on every law or enactment dealing with our profession in every Colony in South Africa, as well as in Great Britain and most other British Dominions and Dependencies. It is well known, thoroughly descriptive, and any change would be to our disadvantage, and, as such, unjust and uncalled for.

(2) It is felt that this change is only the first step to deprive us of the title "chemist" altogether, and that if the present Bill goes through as it stands the time is not far distant when some other body will come forward and usurp the title "chemist," to which we claim a hereditary right, and of which the present Bill seeks to

deprive us. In this connection it is well to bear in mind that professional chemists have long objected to our possession of the title "chemist" in any shape or form, and at the present time the South African Chemical Institute (formerly the South African Association of Analytical Chemists) has a private Bill on hand to provide for their incorporation and protection, and it is only to be expected that in this Bill an effort will be made to restrict the title "chemist" to members of their own body. The attached copy of a memorandum, drawn up by the Council of this Institute, and published in their Proceedings for the year 1920/1921, will show clearly the attitude of this Society towards us, and the necessity of taking every means to safeguard our title. Further, in Great Britain a private Bill was introduced into the House of Commons on November 3, 1921, one of the provisions of which was that after January 1, 1925, no person, though at present registered as a chemist and druggist, pharmaceutical chemist, etc., could continue to use the word "chemist," and that after that date the Institute of Chemistry should alone possess the power to authorise any person to use the title "chemist," and to this end conduct examinations, etc., etc.

The Institute of Chemistry, in a letter by their Registrar disclaiming responsibility for the Bill, remarks:—"The Council of the Institute deplore the confusion which arises through the application of the term 'chemist' to two distinct callings, and would welcome any legislation which would tend to remove this confusion. They hold that the distinctive use of the title 'chemist' and 'pharmacist' to denote these callings would tend to the general recognition of the difference between them and remove this confusion."

This extract, and the memorandum referred to above, serve to show that a determined, though, perhaps, silent, effort is being made, both in this country and in Great Britain, to undermine our right to the title "chemist," and that the substitution of the term pharmacist for "chemist and druggist" is a means to that end, and is instigated either directly or indirectly with that object in view.

(3) We hold that the term pharmacist has no meaning for the general public, and the substitution of a Register of Pharmacists for the four Registers of Chemists and Druggists at present in use is not in the public interest. In all laws and regulations, both before and after Union, the word "chemist" means a chemist and druggist registered under the Medical, Dental, and Pharmacy Laws of the various Colonies. The substitution of the word pharmacist for chemist and druggist would mean the disappearance of "chemist" as a legal designation, and it also might mean that we might no longer claim witness fees on the professional scale in a court of law or exemption from jury service. This latter is a privilege highly prized by all our members, and more especially by those in country districts and others who run their businesses single-handed.

The Committee invite your careful consideration of the above points, and have no hesitation in asking you if you value your present title to sign this protest, which it is intended to transmit to the Minister of Public Health (or other Minister in charge of the Bill) without delay. Furthermore, you are asked, if at all possible, to interview your local member of parliament, explain the position to him, and secure his promise to oppose any change or substitution of our existing title.

For and behalf of the  
Committee of the Pharmaceutical Society of the Transvaal,  
{ J. S. FERGUSON, President.  
(Signed) Sub-Committee { E. O'BRIEN, Hon. Sec.  
  { R. MACINTOSH.

#### THE HABIT FORMING DRUGS ACT

More trouble has been put upon the chemist by the promulgation of "The Habit Forming Drugs Act." This is understood to be a legacy from the League of Nations deliberations, so that it is not possible to blame the Colonial Government for this. A careful perusal of this Act shows that its conditions are unworkable in any country, and more so in a country like South Africa, where the chemist is so often called upon to minister to man and beast. Originally framed to prohibit the indiscriminate use of cocaine, morphine, opium, etc., it falls far short of its ideals, and will in all probability lead to the wholesale smuggling of these products into South Africa. Any prosecutions that will take place are awaited with interest. The majority of the trade have little to fear from its provisions, although it entails quite unnecessary work and worry.



## Legal Reports

**Fines for Inaccurate Dispensing.**—At North London Police Court, on February 16, Mr. Philip Gordon Cracknell, Ph.C., 675, Holloway Road, N.19, was summoned for having sold a prescription deficient in sodium salicylate to the extent of 10.8 per cent. Mr. C. H. Kirby, appearing for the defence, entered a plea of "Guilty." Mr. Bramall, for the prosecution, said he did not suggest that the purchaser was prejudiced by the price paid, but in presenting the prescription he was entitled to the services of a qualified chemist. Mr. Kirby said the prescription was made up from a concentrated solution as recommended to chemists dispensing Insurance prescriptions, and there was always the possibility that a slight mistake might be made in pouring out the required quantity. It was really not a serious error, as only about 12 gr. of the sodium salicylate was absent. The defendant had a good record; he had been sampled before, and no previous complaint had been made. Remarking that he did not think any great harm had been done in this case, the magistrate imposed a fine of £2, with £2 2s. costs.—At the same Court, Parke's Drug Stores, Ltd., answered by their solicitor, Mr. Washington Fox, to a summons for selling by their servant, W. Danks, at 804 Holloway Road, a prescription deficient in potassium bromide to the extent of 11.2 per cent., and in spirit. ammon. arom. to the extent of 5.2 per cent. Mr. Washington Fox pleaded "Guilty, subject to mitigating circumstances." He said it could not be denied that there had been a little carelessness in this case. The drugs were purchased by one weight, and dispensed by another, there being a difference of 42½ gr. in an ounce. The assistant who dispensed this prescription did not allow for the difference. It was a pure mistake, and the monetary gain to the company would not be more than a fraction of a penny. Mr. Ernest J. Parry, B.Sc., F.I.C., consulting chemist to the company, said that he had analysed the sample and agreed with the public analyst, but he wished to point out that the drugs in question were of such a volatile nature that the best of chemists were unable to maintain the strength when the bottles were frequently opened. The error had occurred through allowance not being made for the difference in the weights. The magistrate remarked that, if it were the usual practice of a firm having many branches not to make allowance for the difference in the weights, the gain would in the course of a year be considerable. He assumed that Messrs. Parke would take steps to see that their assistants did not fall into similar errors in the future. Mr. Washington Fox: That has been done. The Magistrate: I shall only impose a penalty of £3, with £2 2s. costs.—At the same Court, on February 19, Mr. C. H. Tomlinson (Tomlinson's Drug Stores, Ltd., 192 High Street, Homerton, E.9) appeared in answer to two summonses for inaccurate dispensing. Mr. Chalenor, supporting the summonses for the Hackney Borough Council, said that the London Insurance Committee had prepared a pharmacopoeia known as the "L.I.P." Two prescriptions were made out and taken to the defendant's shop. The prescriptions were made up by a Mr. Williams, a qualified chemist employed by the defendant. On analysis it was found that a cough mixture known as "Mistura Tussis" contained syr. tolu. 95.3 per cent. in excess, while another ingredient, aqua chloroformi, was absent. In the other case a tonic known as "Mistura Ferri et Strychninae" was deficient to the extent of 47.2 per cent. in liquor ferri perchloridi. The defendant admitted the analyst's certificates, and called his assistant, who said that the essential ingredients in both prescriptions were accurate. Those which were wrong were simply intended for colouring or flavouring. The magistrate said he was prepared to accept the suggestion that no harm would be done to a person who took the medicines, but when mistakes were made in harmless materials they might be made in poisonous ingredients. The analyst should have been present to give him more information. Mr. Chalenor: These are the first prosecutions of the kind in Hackney: The defendant was fined £5, with 30s. costs, on each summons—£15 in all.

**A Nurse's Morphine.**—At the South-West London Police Court, on February 16, Gertrude Violet Carroll, described as married, practising as a nurse, and residing at Amhurst Mansions, Clapham, was charged under the Dangerous Drugs Act, 1920, with attempting to obtain a quantity of morphine with the aid of a forged doctor's order. Mr. Basil Nichols (G. Aplin, Nichols & Son) appeared on her behalf, and the police were represented by Mr. Barker (Wontner & Sons). Mr. Barker said that on February 6 the accused called at the shop of Mr. Alfred Thomas, Ph.C., in Clapham Road, and while in her nurse's uniform handed him an order for a tube of morphine sulphate tablets. Mr. Thomas, who had his suspicions of the genuineness of the order, said, "I am out of this, but if you will call back I will obtain some for you." Actually he had some in his shop, but he did not know her or the signature which purported to be that of a doctor on the order. She then asked Mr. Thomas if she could have just two tablets, as she wanted "her patient to get some sleep rather badly." On February 8 she called again as requested. She then asked for some cotton wool and a tube of hypodermic tablets of morphine. She was taken to the Clapham Road police station, and when searched was found to possess a further order for morphine tablets dated February 9, and apparently from the same doctor. A search of her rooms revealed that altogether she had obtained over 180 tubes of morphine during the past few months from another chemist whose name could not yet be given, as proceedings were shortly to be taken against him. When she was detained at the police station she exhibited the usual signs of a drug taker who was suddenly deprived of a powerful drug. The accused's solicitor formally asked that his client might be dealt with at that Court, urging that she had been particularly unfortunate. The magistrate, however, decided that further evidence should be taken, and accordingly Dr. Harry Smith, Gleneldon Road, Streatham, was called. He stated that he knew nothing whatever about the two orders for drugs handed to him. They were not in the form of a prescription at all. He knew the accused slightly. Detective-Sergeant Parker stated he found the empty morphine tubes as mentioned by Mr. Barker, and from inquiries discovered that she had had 188 tubes by means of forged orders between June and January last from one chemist alone—not Mr. Thomas. They were all obtained on the alleged orders or prescriptions of Dr. Harry Smith. The magistrate asked if the police knew of anything else against the accused, and Mr. Barker said she had been bound over at that Court in December 1919 in connection with a quite different offence. Nevertheless, from inquiries he had made he believed she was one of the finest nurses in the country in maternity and general work. The solicitor for the accused said the drugs were taken by her as she found her practice too great a strain upon her physical powers. She took it first as a pick-me-up, and gradually the craving grew upon her, with terrible results. She started taking it five years ago. She was now thirty-four years of age, and was a widow with one child. He suggested therefore it was a case where the magistrate should exercise his right to permit the prisoner to be taken to some home of restraint for a period sufficiently long to do her good. A lady was present who would willingly take her in if the magistrate would allow it. The magistrate pointed out the prisoner had committed a very serious offence, and one that, owing to the forged orders, ordinarily meant she would go for trial. Having regard to all the circumstances, he would order that she be bound over for twelve months, that time to be spent in the home kindly offered by a lady in Court.

**Dangerous Drugs Act Case.**—In Aberdeen Sheriff Court, on February 14, Mr. Angus Garden, chemist and druggist, was charged with contraventions of certain Regulations made under Section 7 of the Dangerous Drugs Act, 1920. The indictment enumerated twenty-four offences, alleged to have been committed in the shop at 39 Market Street, occupied by Mr. Peter Duffus Milne, chemist and druggist, where the accused was manager, on various dates. The charges related to supplying "dangerous" drugs to a medical practitioner from prescriptions given



by him which did not comply with the Regulations; and with supplying to another customer an ointment which contained more than  $\frac{1}{16}$  per cent. of cocaine hydrochloride without a prescription given by a qualified medical practitioner, or the ointment more than once from one prescription, and failing to register the latter transaction. Mr. John S. Watt, solicitor and barrister, on behalf of Mr. Garden, said he wished to renew his objection to the relevancy of the first two charges, which alleged that his client sold "dangerous" drugs to a medical practitioner from prescriptions which did not comply with the Regulations. The objection was based on a paragraph contained in the trade journal, *THE CHEMIST AND DRUGGIST*, of August 6, 1921, to the effect that a chemist who keeps open his shop for the retailing of poisons, in accordance with the provisions of the Pharmacy Acts, is authorised by the Regulations to sell any of the drugs to any person who is licensed or otherwise authorised to be in possession of drugs. Having read the letter of the former Home Secretary (*C. & D.*, II., 1921, p. 173), Mr. Watt added that he was now in possession of the issue of *THE CHEMIST AND DRUGGIST* for July 13, 1921, containing the answer given to a correspondent, to which the Home Secretary's attention had been called, with the result that he gave the ruling quoted. He (Mr. Watt) contended that the medical practitioner mentioned in the case was "authorised to be in possession of drugs" by the Regulations, and that was the view of the Home Secretary. Mr. T. MacLennan (the fiscal) said his complaint was based on the fact that they were prescriptions and not orders. Mr. Watt replied that the Home Secretary drew no such distinction. The view of the Home Secretary seemed only common sense, because it appeared to be absurd that a druggist should be able to supply drugs to a medical man in large quantities, and should be prohibited from selling them to him in small quantities. That seemed to be a reversion of the mathematical axiom that the whole included the part. The question was one of the greatest importance to all chemists, and would probably have to be disposed of in the Court of Justiciary. Mr. MacLennan stated that the matter had been under the consideration of Crown Counsel, and that he was instructed, in the event of the objection now made being sustained, to take an appeal to the High Court of Justiciary. Mr. Watt said that in the event of the objection not being sustained the accused would take a similar appeal. The Sheriff: If your argument is sound, then Mr. Milne should not have been convicted. Mr. Watt: No, my lord, he should not. Continuing, Mr. Watt contended that, according to the Home Secretary's opinion, a chemist was entitled to sell any quantity of a drug to a medical man, irrespective of prescriptions. Many medical men in England kept their own pharmacies. Mr. MacLennan said he did not know anything about the Home Secretary's reply to *THE CHEMIST AND DRUGGIST*. That was a newspaper report, and if the late Home Secretary was to be a witness in the case he could come and defend himself. (Laughter.) These transactions were treated by the accused as prescriptions. He entered them in the prescription-book, and they were found there by the police. The prescription-book would be produced.

## Gazette

### Partnerships Dissolved

LEWIS, T., and EVANS, D., 136 Chepstow Road, Maindee, Newport, Mon., and Dock Street, Newport, chemists and druggists, under the style of Evans & Lewis.

### Bankruptcy Acts

#### RECEIVING ORDER AND ADJUDICATION

CRANSTON, E., 314 Sangley Road, and 100 Culverley Road, Catford, Kent, chemist, under the style of Sangley's Drug Stores.

THE Postmaster-General announces that the cash-on-delivery service for parcels has been extended to Iceland.

## New Companies and Company News

### P.C. means Private Company and R.O. Registered Office

CLENSALL SOAP CO., LTD. (P.C.).—Capital, £1,000. Objects: To carry on the business of manufacturers of soaps of all kinds, perfumes, essences, essential oil refineries and chemicals, etc. Solicitors: H. E. Warner & Co., 1 Great Winchester Street, London, E.C.

KOMBYN CO., LTD. (P.C.).—Capital, £300. Objects: To take over the stock and plant of H. Bibby, trading as Kombyn Laboratory at 2 Sherlock Street, Fallowfield, Manchester, and to carry on the business of chemical manufacturers, patent medicine proprietors, dealers in drugs and chemists' supplies, etc. The first directors are: H. Bibby, 6 Brailsford Road, Fallowfield, and T. Halliday, 288 Rochdale Road, Oldham. R.O.: 2 Sherlock Street, Fallowfield, Manchester.

FREDERICK FRYD & CO., LTD. (P.C.).—Capital, £1,200. Objects: To take over the business of general manufacturers and manufacturers' agents carried on by J. Parker, F. W. Fryd, W. G. Fagg and S. G. Craddock at 6 Idris Yard, Broad Street, Canterbury, as "Frederick Fryd & Co.," and to carry on the same and the business of chemists, druggists, oil and colourmen, etc. The permanent directors are: J. Parker, 5 Nunnery Road, Canterbury; F. W. Fryd, 9 Pretoria Road, Canterbury; W. G. Fagg, 12 St. Augustine's Road, Canterbury; S. G. Craddock, 25, Springrise Road, Hither Green, London, S.E. R.O.: 6 Idris Yard, Broad Street, Canterbury.

WILLIAM GOSSAGE & SONS, LTD., report a net profit for the year to November 30, 1922, of £174,470, against £148,835 for the previous year. A dividend on the ordinary shares of 20 per cent. is declared, compared with 15 per cent. for 1921, leaving to be carried forward £3,220, against £2,858 brought in.

JOSEPH CROSFIELD & SONS, LTD.—The accounts show a balance available for the year to November 30, 1922, of £330,937, compared with £280,556 for the previous year. After payment of the preference dividends and 10 per cent. on the ordinary shares, against 5 per cent. for the previous year, there remains to be carried forward £3,437, against £3,056 brought in.

G. B. KENT & SONS, LTD.—The net profit for thirteen months ending September 30, 1922, after allowing for bad and doubtful debts, depreciation, etc., was £4,305, plus £1,437 balance brought forward, and transfer fees, making £5,742, less interest on mortgages, loans, E.P.D. and directors' fees, also interim dividend on preference shares, leaving £845. The report states that trade continued to decline for first ten months under review, but then improved, and last quarter of 1922 shows decided improvement, and orders are consistently increasing. The Board recommend that £2,000 be taken from reserve, leaving £782 to be carried forward.

INTERNATIONAL SPONGE IMPORTERS, LTD.—The report for the year ended December 31, 1922, states that the net profit, including recovery of excess profits duty, and after providing for all outgoings and depreciations, amounts to £9,348 1s. 7d., to which is added balance from last account, £219 0s. 2d., making a total of £9,567 1s. 9d. This is appropriated as follows: Amount of preference share dividend for the year, £7,500; income-tax reserve, £1,148 10s. 9d.; making a total of £8,648 10s. 9d.; leaving a balance to be carried forward subject to corporation profits tax and transfer to reserve fund, of £918 11s. The directors regret that the continued stagnation of the Continental and general export trade has again seriously affected the profits. It is hoped, however, that with the settlement of European affairs that this part of the company's business will improve. The mortgage of £12,500 upon the premises of 42-46 Houndsditch and 1-5 Goring Street has been repaid. Mr. L. A. Cohen, together with Mr. G. S. Marks, retire as directors, and, being eligible, offer themselves for re-election.



## Bankruptcy Reports

**Re Michael Dabkowicz** (trading as R. Leconte & Co.), leather and perfumers' sundries merchant, 7 South Street, Finsbury Pavement, London, E.C.—The creditors in this case met on February 15 at the London Bankruptcy Court. A statement of affairs was presented showing total liabilities £5,875 (unsecured £3,432), and assets valued at £979, after deducting £242 for payment of the preferential claims. The chairman reported that the debtor was a Russian, and had not been naturalised. He came to this country from Antwerp in 1907, with the object of learning the language, and had £400 in cash. For a few months he was employed by R. Leconte & Co., then at 62 Coleman Street; a year later he was appointed manager, and, with his brother, joined M. R. Leconte, the then proprietor, as a partner in the business, which was not solvent. Their idea was to secure the firm by putting in additional capital of £300, provided equally by the debtor and his brother. There was a branch office in Paris, and one was established in Warsaw. The partnership was dissolved in 1910, Mr. Leconte retiring with £25, and retaining the Paris business. The Warsaw branch was next closed, and twelve or eighteen months later the debtor's brother also retired. The debtor continued the business in South Street and traded with success until he joined the Army in the middle of 1916. In his absence it was managed by his wife, who took the profits in consideration of her services. The debtor returned early in 1918 and was again successful until two years ago, when, owing to the slump, the business declined, and it had not since recovered. Mr. E. H. Hawkins was elected trustee to administer the estate, assisted by a committee of inspection. The list of creditors includes one of £1,483.

## Deed of Arrangement

**Jones, William**, chemist, 2 Bridge Street, Aberayron. Dated February 7: filed February 12. Liabilities, unsecured, £4,762. Trustee: J. E. Jordan, 79 Lichfield Street, Wolverhampton.—A circular letter dated February 8, issued by A. J. & T. C. Hughes, solicitors, Aberystwyth, shows liabilities amounting to £4,762, of which £1,601 was due to trade creditors, while the bank was partly secured to the extent of £3,326, and held security valued at £165. The assets consisted of stock-in-trade estimated to produce £427, fixtures and fittings £80, household furniture £20, book debts £20, and lease £100, making a total of £647, from which had to be deducted £3 2s. 6d. for preferential claims, leaving net assets £643 17s. 6s. A meeting of the creditors was held on February 16, when it was stated that the debtor's position was mainly attributed to a loss he had made in another business and to the heavy fall in the value of stock. The debtor had traded with a partner, from 1919, who introduced capital to the extent of £900. The partnership was dissolved in May, 1922: the debtor took over the liabilities and assets, and the outgoing partner did not receive anything. A resolution was passed confirming the deed already executed, and it was decided that the composition suggested should be accepted.

"NICE ON PAPER."—The January "Handbook" of the Peterborough and District Association of Pharmacists contains the following:—

"It does sound nice on paper to read that as time goes on we shall be more professional than ever. Our Apprentices will have matriculated and in course of time they will know all about Biology and Bacteriology and qualify as Professional men, but after that, what then? They will join the band of Pharmacists who are vainly seeking the berths that do not exist. The men who were turned out of the Bloomsbury Examination Mill which filled the Coffers of the Society with Money and gave to the men a barren hope. They will join men who gladly will take 50s. to get a job. Such is the theory of Professionalism. The Pharmaceutical Society is only concerned with the theory. It has nothing to do with the practice or the remuneration of the practice."

## Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1923, p. 289.

(From "The Trade-marks Journal," January 31, 1923.)

- "DECUBITOL"; for medicinal chemicals (3). By G. Knowles, 153 High Street, Harborne, Birmingham. 431,647.
- "PLANTISIN"; for medicinal chemicals (3). By P. E. do Rees, 26 Coventry Street, London, W.1. 431,855.
- "MOTHER'S ARM"; for india-rubber holders for feeding bottles (40). By H. Steeper, 73 Arcadian Gardens, Bowes Park, London, N.22. 431,003.
- "DOROTHY"; for face powder and powder puffs (48). By Stone-Ballantine, Ltd., 13 Wellcourt, Queen Street, London, E.C.4. 426,269.
- "FRAISELINE"; for perfumery, etc. (48). By W. Clifford, 8 Francis Street, Westminster, London, S.W.1. H. Langley-Smith, W. J. H. Ennis and J. H. Arkell, 14-20 St. Mary Axe, London, E.C.3. 429,220.

(From "The Trade-marks Journal," February 7, 1923.)

- "AQUAROS"; for chemicals (1). By D. Anderson & Son, Ltd., 62 Short Strand, Belfast. 432,184.
- "VAPURO"; for disinfectants (2). By Vapuro, Ltd., 127 Gray's Inn Road, London, W.C.1. B423,721.
- "FUMIVERM"; for a preparation for destroying woodworms and grubs (2). By C. W. Dwyer, 77 Union Street, Stonehouse, Plymouth. 426,748.
- "EATAN"; for a medicine for anæmia, tuberculosis, etc. (3), and for a liquid food (42). By Rottig Gesellschaft mit beschränkter Haftung, Karolinenplatz 3, Munich, Germany. 426,993; 427,405. (Associated.)
- "JEREZ-QUINA DUQUE"; etc., on label device; for a medicated wine (3). By Sanchez Romate Hermanos, 20 Leatas, Jerez de la Frontera, Spain. 423,990. (Associated.)
- "MIRADUM"; for radio-active medicines (3). By Ole Christian Frederiksen, 4 Kronprinsengade, Copenhagen. 430,344.
- "COCKBURN'S TABOIS"; with pestle and mortar device and facsimile signature ("Cockburn's" and pestle and mortar disclaimed); for all goods (3). By Cockburn & Co., Ltd., 150/140 Howard Street, Glasgow. 420,374. (Associated.)
- "SALTRATOS RODELLE" on scroll device; for medicinal chemicals (3) and for perfumery, etc. (48). By Saltrates, Ltd., 22 Euston Buildings, George Street, London, N.W.1. 420,923/924. (Associated.)
- "PARASAN"; for a medicine (3). By John Morgan Richards & Sons, Ltd., 46-47 Holborn Viaduct, London, E.C.1. 431,388.
- "DEFLUITE"; for a medicine (3). By J. W. Wood, "Woodcroft," High School Road, Tamworth. 431,455.
- "CASTRIAN"; for medicinal chemicals (3). By Taylor's Drug Co., Ltd., 347 Burley Hill, Leeds. 431,591.
- "NUMOL"; for food substances (42). By Numol, Ltd., 4 Gallowgate, Newcastle-on-Tyne. 430,125. (Associated.)
- "EMBROCNE EMBROCAION, AN ANTISEPTIC AND DISINFECTANT SPIRIT"; for embrocation (3). By J. Nicol, 32 Charing Cross, London, S.W.1. 431,656.
- "RADISIC'S"; for hair and skin preparations (48). By La Maison Radisic, 4 Canfield Gardens, South Hampstead, London, N.W.6. B430,234.

(From "The Trade-marks Journal," February 14, 1923.)

- "PURAMO"; for all goods (1). By H. Bayley, 170 Piccadilly, London, W.1. 432,124.
- "STO-KAID"; for chemicals (2). By A. MacGarvey, 175 Dundas Street, London, Ontario, Canada. 429,813.
- "LIFELIGHT"; for chemicals (2) and for soap, etc. (47). By Lever Brothers, Ltd, Port Sunlight, Cheshire. 431,261/262. (Associated.)
- "VEET"; for medicated skin preparations (3). By Tokalon, Ltd., 212-214 Great Portland Street, London, W.1. 428,725. (Associated.)
- "PROZYMOL"; for medicinal chemicals (3). By S. Kubota, 43 Fujimi-cho, Azabu-Ku, Tokyo, Japan. 431,451.
- "DERAGE"; for infants' food (42). By Eva K. Thomas, 41 Plasturton Gardens, Cardiff. 428,375.
- "HYGENIA"; for flavouring (42) and for mineral waters, etc. (44). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London, E.8. 431,239/240. (Associated.)
- "CHARMONTQUE"; for perfumes (48). By Ryder & Son (1920), Ltd., 27 Holywell Hill, St. Albans. 428,709.
- "HAYAH"; for brillantine, pomade and toilet powder (48). By Orlene Co., Ltd., 4 High Street, Croydon. 428,864.



## Chemical Society

At the meeting of the Chemical Society, held in Burlington House on February 15, Professor T. M. Lowry, F.R.S., and later Professor J. F. Thorpe, F.R.S., in the chair, a highly important communication was made by Dr. Alexander Scott, F.R.S., which was not on the list of papers to be read. During the course of the evening he read a letter received by him from Drs. Coster and Hevesy on February 13, to the effect that they had at once investigated the samples of the new element submitted by him, with the result that they had been unable to detect the presence of hafnium in these samples. Dr. Scott further stated that Professor Bohr is continuing his investigations of these samples, and he believed that so far he had succeeded in discovering lines not found in any known element. From these results it is apparent that Dr. Scott's element is not identical with hafnium, but is an entirely distinct, hitherto unknown element. Dr. Scott concluded his remarks by stating that he had found differences in the various samples of New Zealand sand from which he had obtained the new element, some specimens containing 25 and others only 10 per cent. of titanium.

The first paper to be read dealt with *Spinacene: Its Oxidation and Decomposition*, in which Mr. A. Chaston Chapman gave a report of his further investigations of the characters of this compound, found by him in the liver oil of a species of shark, and having the composition  $C_{29}H_{48}$ . He had now succeeded in obtaining the saturated hydrocarbon, of the formula  $C_{29}H_{60}$ , and in discussing its properties he mentioned that its heat of combustion was much below that of the normal paraffin of the corresponding formula. On oxidation by means of hydrogen peroxide a body having the composition  $C_{27}H_{48}O_8$ , and also an acid, were obtained. Samples of spinacene, and of its halogen compounds, were shown, the former being a colourless liquid and the latter occurring in the form of a white powder. Professor R. H. Pickard (with Mr. H. Hunter) presented two papers: *Investigations on the Dependence of Rotatory Power on Chemical Constitution. Part XIX.—The Rotatory and Refractive Dispersion of d-γ-Nonyl Nitrite*, and *Investigations on the Dependence of Rotatory Power on Chemical Constitution. Part XX.—The Rotatory Dispersion Powers of Oxygen Compounds Containing the Secondary Octyl Radicle*. The authors discussed the classification of compounds possessing simple or complex rotatory dispersion. Compounds exhibiting simple dispersion have symmetrical oxygen arrangement, whereas complex dispersion is specific to the carboxyl group. The compound investigated, d-γ-nonyl nitrite, is a yellow liquid which was found to exhibit a very complex dispersion. The determination of the absorption band by the Drude equation, and that of its refractive index by Sellmeier's equation, was developed, and it was found that the figures actually established by examination approximated very closely to those calculated by these two formulas; the determination of the refractive index by Sellmeier's equation in this case being its first application to organic liquids. Mr. A. D. Mitchell read a paper on *Studies on Hypophosphorous Acid. Part V.—Its Reaction with Silver Nitrate*, in which he showed that the behaviour of this acid in the presence of silver salts justified the assumption that intramolecular changes take place, yielding an active and an inactive form, with reversible change values. This observation is of particular interest since it represents the first case of the existence of isomeric changes in inorganic chemistry. In conclusion, the esters of hypophosphorous acid were discussed from the point of view of the occurrence of the tri- or pentavalent form of phosphorus in the molecule of these compounds. A discussion of the equations bearing on vapour pressure curves of lead and sodium cyanide, and their determination, formed the subject of Dr. C. K. Ingold's paper entitled *The Form of the Vapour Pressure Curve at*

*High Temperatures. Part II.—The Curve for Sodium Cyanide*. Dr. E. P. Perman (with Mr. H. L. Saunders) presented a communication on *The Properties of Ammonium Nitrate. Part V.—The Reciprocal Salt-Pair Ammonium Nitrate and Potassium Chloride*, in which the relationship of potassium chloride, potassium nitrate, ammonium chloride and ammonium nitrate in various proportions was discussed; the interaction of these four salts yields mixed crystals in a definite proportion, in addition to crystals of each compound *per se*. Professor R. Robinson, in his paper *On a Synthesis of Pyrylium Salts of Anthocyanidin Type. Part II.* (with Mr. D. D. Pratt), briefly mentioned that three anthocyanidins were now known, and then proceeded to read two papers (in collaboration with Mr. J. M. Gulland) on *The Morphine Group*. In these papers the authors discussed at length the constitutional formula of morphine, and also of its degradation products, basing on the assumption that morphine does not possess a double bond, but an anacyclic bridge, the position of which permits of an explanation of its relation to all other compounds of this group. In discussing the constitution of the reduction products of the morphine group, attention was drawn to the fact that thebainon and thebainol are amorphous.

## New Books

*Ham's Year Book*, 1923. 7½ by 4½ in. Vol. I., Customs, pp. 280+70+144. By T. W. Harrison, R. M. Kennedy and G. W. Putnam. Vol. II., Excise, pp. 388+70+142. By T. W. Harrison and H. J. Bax. Each vol. 8s. 6d. London: E. Wilson, 16 Copthall Avenue, E.C.2. [The books contain a directory to the Customs and Excise service. The first volume supplies a complete digest of the Customs laws and regulations, including, for instance, articles on importation, exportation, trade marks, the safeguarding of industries act, smuggling, passenger's baggage, etc. The second volume contains a summary of all the Excise laws, covering such subjects as liquor licences, table waters, patent medicines, spirit permits and certificates, the growth and manufacture of tobacco, and so forth; while the larger edition of each volume contains in addition a copy of the Tariff of the United Kingdom, and a large section on bonded warehouses and the warehousing of spirits, wine, sugar, tobacco, and other dutiable goods. The two volumes contain an immense amount of information.]

*Directory of the Association of British Chemical Manufacturers*. 8½ by 6 in. Pp. 317. 10s. 6d. Published by the Association, 166 Piccadilly, London, W.1. [As stated in the introduction, this Directory is intended to promote and facilitate business relations between British manufacturers of chemical products and purchasers all over the world. To this end the information contained is given throughout in English, French, Spanish, Italian, Portuguese and German. It contains a list of the council, honorary members and officers of the Association, a directory of the members, with postal and telegraphic addresses and telephone numbers, followed by a classified list of products with the names of the firms manufacturing them. To facilitate the finding of any special product, five alphabetical indices are appended, giving the corresponding designations in the above-mentioned foreign languages, with the page on which the product is to be found in the list, a feature which greatly enhances its practical value to foreign clients. A list of proprietary and trade names is also included, giving the corresponding chemical description and the name of the manufacturer. From the point of view of the foreign user of this useful work it is to be regretted that in the alphabetical indices only the British Pharmacopœia designations "benzamine," "hexamine," and "phenazone" appear, which are practically unknown outside the British Empire, and to foreigners suggest rather an unfamiliar trade-mark product than the actual compounds with which they are well acquainted—incidentally an illustration of the danger of arbitrarily coining designations not universally accepted.]



## Festivities

### Harker, Stagg and Morgan's Dance

IN consequence of the success of a dance held recently by the staff of C. R. Harker, Stagg & Morgan, Ltd., a repeat was held at Salisbury Hall, Romford Road, on February 9, and was equally successful. The efforts of Miss Green and Mr. Stearn in organising these special evenings has been greatly appreciated by the staff and their friends.

### B. W. & Co.'s Whist-drive

THE head office staff of Burroughs Wellcome & Co. held the third of their winter series of social evenings on February 16, at The Mecca Café, Ludgate Hill, London, E.C. In this, which took the form of a whist drive, they were joined by their fellows from associated institutions and other friends. Keen competition, numerous prizes, and an atmosphere of hearty good fellowship contributed to produce a most enjoyable evening.

### St. Pancras Social

THE St. Pancras chemists of the North London Pharmaceutical Association organised a social for February 15, at Beale's Restaurant, Holloway Road, to which they invited their fellow members of the Association. The first part of the evening was given over to a whist drive. The prize-winners were Miss W. Smith, Mrs. Felton, Miss Oldenshaw, and Messrs. Hubert Jenkin, E. K. Bunkall, and C. T. Bennett. After refreshments had been served the party, which was very large, betook themselves to dancing for the rest of the evening. Mrs. C. W. Matthews presented the prizes, and a vote of thanks on the motion of the president, Mr. Arthur H. Jenkin, was accorded to the organisers from St. Pancras, led by the treasurer, Mr. C. W. Matthews, and seconded by his M.C., Mr. T. Rawlins.

### John Bell & Croyden's Social

UNDER the auspices of the "John Bell Club" 180 members of the staff of John Bell & Croyden, Ltd., attended the monthly social on February 17. Dancing proceeded from 6.30 p.m. until 11.30 p.m. in the Mortimer Hall. During the interval refreshments were served in the Lower Hall, and Mr. Langham, senr., and Captain Langham were called upon to address the members of the Club. They expressed their appreciation of the support the company is receiving from all and every member of the staff. An interesting feature of the evening was the introduction by Mr. Langham, senr., of a Scottish piper in kilts and with bagpipes complete, who led the procession to the supper-room. This innovation was by way of compliment to the large number of members of the staff who come from the land across the Tweed.

### Bath Pharmacists' Whist-drive

THE members and friends of the Bath Pharmaceutical Association met for a whist drive and social at Fort's Restaurant, Milsom Street, on February 21. The guests, who numbered about eighty, were received by the President (Mr. H. C. Broad) and Mrs. Broad. The winners were:—*Ladies*: Mrs. Browning, Mrs. Stratton, Miss Aspell, Miss Membery, Mrs. C. Jenkin. *Gentlemen*: Mr. T. Wills, Mr. A. C. Olds, Mr. W. H. Hallett, Mr. Keast, Mr. W. J. Hallett. Special prizes were awarded to Miss Clark and Mr. G. Moore, Mrs. P. J. Thompson and Mr. H. Chivers, and Miss Jenkin. Many handsome gifts were awarded, the donors including the following:—The British Drug Houses, Ltd., Erasmic Co., Ltd., J. Grossmith & Son, Sangers, Ltd., Vinolia Co., Ltd., Wright, Laymen & Umney, Ltd., Mr. W. H. Hallett.

### Merseyside Masons' Dinner

THE Merseyside and Southport Pharmaceutical Freemasons held their third annual dinner at the Exchange Station Hotel, Liverpool, on February 23, when there was a good number of brethren and ladies present. Brother Wallbridge presided. Brother Roger Rowlands (director of ceremonies), Brother Haynes (musical director), Brothers John Jones, Harold Wyatt, and J. Scott spoke to various toasts. Musical items were rendered by Brothers Beattie, Haynes, Josty, and Lloyd, Madame Wilcox, Misses Houghton, Law, and Connie Lloyd. The music was of a high order and keenly appreciated. Brother W. H.

Saunders (Ayrton, Saunders & Co., Ltd.) owned to forty years' Masonry. Responding to his health, Brother Wallbridge said he hoped all pharmaceutical Masons within the Association's district, which had a population of over a million, would support the Association launched so auspiciously three years ago.

### Leicester Pharmacists' Dinner

AT the annual dinner of the Leicester and County branch of the Pharmaceutical Society, held at the Oriental Hall, on February 15, Mr. A. E. Young (President) presided over an attendance numbering upwards of 120. The President, before submitting the toast of the evening, "The Pharmaceutical Society of Great Britain," extended a hearty welcome to the visitors, mentioning in particular an ex-president of the Association—Councillor W. J. Lewis and Mrs. Lewis, of Portsmouth. Reviewing the activities of the Society, he said that Leicester and County was one of the first to be formed. He was told by Sir William Glyn-Jones (secretary of the Society) that their venture that evening was the first public dinner held by any branch of the Society. (Applause.) It was largely due to the Parliamentary services of Sir William that the Society could now get a patient ear to any suggestions they made. Sir William Glyn-Jones, replying, said he was hopeful of a great deal of good coming from the branch movement by bringing the Society as near to the individual members as it possibly could. There never was a time when pharmacy and pharmacists stood so well with the Government and local authorities as it did to-day. (Applause.) They must reap some of the benefits of the system of secondary education, and Leicester was fortunate in having facilities for pharmacists to become qualified not only in Part I. but for the whole examination. Mr. A. E. Marsh, proposing "Our University College," said that while Leicester was only starting in a small way with one college it must be remembered that Oxford only started with one. There was no reason why in the future Leicester should not vie with some of the old universities. The Council of the branch had under consideration the partial fitting up of a pharmacists' laboratory in connection with the University as their quota, and they hoped for the help of the Society to make it a success. Dr. Astley V. Clarke (vice-president, University College) replied. Mr. W. E. Booth (A. & F. Pears, Ltd.) proposed the toast of "The Ladies and Visitors," to which Mr. John Rennie responded. During the evening the company listened-in to radio music arranged by the Marconi Company. Humorous songs were sung by Mr. Heath and solos by Mr. Peberdy, while recitations were given by Miss Olive Moss.

## Retail Pharmacists' Union

A CONFERENCE of delegates from the Retail Pharmacists' Union Branches and Sections of Associations will be held on March 21, at 10 a.m., at the Hotel Russell, Russell Square, London, W.C.1. The conference will take place during the morning, and the annual meetings of the R.P.U. and Chemists' Defence Association will be held during the afternoon. One member from each Branch or Section is to be appointed as the official representative, and if any Branch or Section desires to send additional representatives no objection will be raised provided the Branch bears the expense, and the number of such representatives does not exceed one delegate for every fifty members of the Union in the Branch or Section. A luncheon will be provided, free of charge, to delegates. The Conference is to discuss R.P.U. affairs, and the executive invite resolutions for inclusion in the agenda. These resolutions should be sent to the Secretary not later than March 10.

**Warwickshire.**—The Retail Pharmacists' Union Branch (No. 39) met at the close of the Association meeting on January 24, the principle item on the agenda being "unprofitable proprietaries," and the secretary was instructed again to approach certain firms whose articles did not show a reasonable profit.



## Pharmaceutical Society of Ireland

### Council-meeting

THE monthly meeting of the Council was held on February 13 at 67 Lower Mount Street, Dublin, Dr. A. J. Barnes, President of the Society, in the chair. The following members of the Council were also present: Dr. J. A. Walsh, Dr. J. A. Mitchell, Messrs. D. M. Watson (treasurer), John Smith, Victor E. Hanna, Michael Ryan, James A. Doyle, G. A. McLean Lee, James Michie, Denis J. Nugent, and Mrs. F. J. Fitzpatrick.

Letters of apology for non-attendance were received from Mr. R. Blair (Vice-President), Mr. J. E. Connor, J.P., Mr. R. McCartney, Mr. J. C. Culbert, Mr. J. A. Bingham, and Mr. A. Wilson.

#### PRELIMINARY REGISTRATION

The following, who submitted certificates of other bodies, were admitted to Preliminary Registration:—

Miss Margaret McAuliffe, Westcliffe, Sunday's Well, Cork; Mr. F. J. O'Connor, 15 Bridge Street, Tralee; Mr. Lyall G. Smith, 3 Terenure Road, Dublin; Mr. Terence J. McGovern, The Hill, Monaghan; and Mr. Patrick McMahon, 8 William Street, Limerick.

#### REPORTS FROM EXAMINERS

Reports from the examiners upon the Preliminary, Pharmaceutical Assistant, Registered Druggist, and Pharmaceutical Licence examinations were received as follows: Thirty-three candidates presented themselves for the Preliminary examination, of whom seventeen passed, two with honours. For the Pharmaceutical Assistant examination there were two candidates, both of whom passed. There were three candidates for the Registered Druggist examination, all of whom passed. For the Pharmaceutical Licence examination twenty-two candidates presented themselves, ten of whom passed. There were four lady candidates, 50 per cent. of whom passed; 40 per cent. of the candidates of the other sex passed. One of the candidates, Mr. Herbert A. Johnston, of Larne, co. Antrim, received 261 marks out of a possible 300, which is believed to be the highest percentage ever received by a candidate at the Final examination.

The PRESIDENT said all the examiners thought very highly of Mr. Johnston, and said they had never before met his equal.

The REGISTRAR (Mr. A. T. Ferrall) said that Mr. Johnston did not know two days before the examination whether it would be possible for him to enter. Some certificates that he had sent to Dublin were lost in the mail train disaster. He, however, got duplicate certificates in time.

#### DEATHS

The Registrar submitted reports regarding the deaths of Mr. James Moore, M.P.S.I., late of Dun Lavghaire, and of Mr. Samuel Curham, Ph.C., late of South Richmond Street, Dublin.

Reports from the Law Committee, the House Committee, the Registered Druggist Committee (held in Belfast), and the Education Committee were received and adopted.

#### GOVERNMENT VISITOR'S REPORT

In connection with the Law Committee, a report of Sir John W. Moore, M.D., F.R.C.P.I., visitor, on the examinations held by the Society during the year 1922, was submitted. The report contained the following:—

It is again my pleasing duty to express the opinion that the Preliminary and Qualifying Examinations of the Pharmaceutical Society of Ireland are sufficient tests of the candidates' knowledge, and that the different examiners spare no pains to secure a high standard in the various parts of those examinations. Throughout the years I have had ample opportunity of forming this opinion by visitation of each portion of the examination—written, oral, and practical.

To the Examiners, the President and Council of the Society, and especially to Mr. Arthur T. Ferrall, the able and courteous Registrar of the Society, I am much indebted for valuable help in the discharge of my duties as visitor on behalf of the Privy Council of Ireland.

#### OTHER MATTERS

The following pharmaceutical licences were directed to be sealed: F. J. Brennan, Mary Finnegan, J. Fitzpatrick, Mary B. Gildea, M. V. Howe, H. A. Johnston, J. Mackle, J. A. Mallon, H. L. Mushatt, and S. G. Smith.

Miss E. M. O'Flanagan, Ph.C., Main Street, Thurles, co. Tipperary, was elected a member.

The following wrote notifying changes of address:—

Mr. Wm. R. Corrie, Ph.C., to c/o Alexander Boyd & Co., Ltd., Castle Buildings, Lisburn; Mr. R. N. Allen R.D., to Waterloo Place, Derry; Mr. Wm. Clements, R.D., to 2 York Road, Belfast; Mr. Eugene P. Judge, to Medical Hall, Corribdale, Oughterard, co. Galway; Mr. Hugh Kyle, R.D., to Kyle's Medical Hall, Main Street, Bangor, co. Down; Mr. James H. MacLaughlin, R.D., to Coolmaghera House, Newbuilding, Derry; and Mr. Eyre Suche, R.D., to Doon, co. Limerick.

## Pharmaceutical Society of Great Britain

### Branch Meetings

**Durham.**—A meeting of Durham County members of the Pharmaceutical Society was held on February 14, when the Durham Branch of the Society was formed. The chairman was Mr. Forster, who, in introducing Councillor Marns, remarked that whilst they had not a territorial representative on the Pharmaceutical Council they had the equivalent in Mr. Marns, who was a native and was trained in the county. Mr. Marns then gave an address on *The Origin of the Branches*. The following officers were afterwards appointed:—*Chairman*, Mr. Harburn, Bishop Auckland; *Secretary*, Mr. G. A. Brown, Shildon; *Treasurer*, Mr. A. Peverill, Eldon Lane, Bishop Auckland; and a representative committee covering the area. The headquarters of the branch will be at Bishop Auckland.

**Folkestone.**—A meeting was called of members and associates resident in Folkestone, Cheriton, Sandgate, Hythe and Dover on February 14, who heard the President of the Society (Mr. E. T. Nethercoat) explain the aim and scope of the suggested branch. At the close of his address it was unanimously agreed that a branch of the Society should be formed. Mr. C. J. Taylor (Cheriton) was elected President, Mr. Balmford (Folkestone) Treasurer, and Mr. F. C. Jones (Folkestone) Secretary. A small committee consisting of Messrs. Barnett, Ewell and Petchey, was also appointed.

**Grimsby.**—A meeting of the members of the Society of Grimsby and District was held recently to form a branch of the Society. Mr. J. E. Chapman, Grimsby, presided, and introduced Mr. H. Antcliffe, a member of the Pharmaceutical Council, who gave a general outline of the Society's work at headquarters and explained the objects of the proposed branch. It was unanimously decided to form a branch, and the following Committee was appointed: Mr. J. E. Chapman, *Chairman*; Mr. F. W. Deunes (Louth), *Vice-Chairman*; Mr. H. Jowett, *Treasurer*; Mr. Appleby, *Hon. Secretary*; with the following: Messrs. E. Sigley, C. Dawing, R. C. Johnson, H. W. Colley, D. Brown, E. Werge, Johnson and Clough (Grimsby), H. H. Simpson (Louth), W. Fletcher (Scunthorpe), J. C. Lee (Barton-on-Humber). It was decided to suggest that the name of the branch be North-East Lindsay.

**Swansea.**—A meeting of the Swansea and West Glamorgan Chemists' Association was held recently for the purpose of forming a branch of the Pharmaceutical Society, Mr. Dryden (chairman) presiding. Mr. H. M. Lloyd, member of the Pharmaceutical Council, was the speaker, and at the conclusion of the address it was decided that a branch should be formed. The following officers were elected: *President*, Mr. Dryden (Landore); *Vice-President*, Mr. Kent (Swansea); *Treasurer*, Mr. Jno. Rees (Swansea); *Secretary*, Mr. Gilbert (Swansea); *Committee*, Messrs. Isaac (Morriston), Jones (Swansea), J. E. Williams (Port Talbot), and Misses G. Cowling (Mumbles) and D. John (Port Talbot).



## U.S. Pharmacopœia Revision

AN official draft of some of the proposed changes in the tenth revision of the United States Pharmacopœia is published in the "Journal of the Pharmaceutical Association" for January. This, which is Part I. of the abstracts made public for comment and criticism before final adoption, relates to "most of the organic chemicals and some of the inorganic chemicals." The suggested changes are all the more interesting because during recent years serious attempts have been made in the United States to co-ordinate all branches of medical science through medical and pharmaceutical associations. The first impression is that the "tried and trusted" remedial agents are to undergo little or no change in specification. Secondly, there is an endeavour to eliminate points where individual opinion might vary. Thus quantitative turbidometric tests for chlorides and sulphates are to replace the former statements respecting these of "not more than slightly turbid or slightly opalescent." The difficulty of remaining consistent is shown by the case of pilocarpine nitrate and sodium diethylbarbiturate (new) where the term "an opalescence" is re-introduced in the test for "chloride," and "turbidity" in sulphate test for latter. Increasing regard for limits of impurity is evident in several ways, e.g., in melting point limits, new or reduced ash limits, non-volatile matter in volatile compounds, tests for readily carbonisable substances, tests for acidity in alkaloidal salts, and limits for free acids in vegetable oils. Again, after specifying exactly such limitations, a lapse occurs in some ash limits as negligible. The suggestion of therapeutics in connection with pepsin is removed by deletion of reference to incompatibility with alkalies and activity in dilute hydrochloric acid solutions. On the other hand, a dispensing note is added to phenol: "When phenol is to be mixed with collodion, fixed oils, or petrolatum, use melted crystalline phenol instead of liquid phenol." Another curiosity is the deliberate omission in some instances of descriptions of "taste." It is not stated whether this is due to grave danger arising out of this procedure in the case of poisons or to such test in other cases being individual in character. One also wonders why a poison warning is added to aconitine and removed from mercury perchloride. Quite a number of new identity tests are added, and assay processes included for such preparations as caffeine, sodio-benzoates, which may vary in composition. A concession to purity of principle, irrespective of whether source is natural or artificial, is reflected in the omission of definitions of source in several instances. Solubility in solvents other than usual (e.g., menthol in glacial acetic acid) appear somewhat sporadically. The new inclusions so far number five only, and are of considerable importance. Of these, chaulmoogra oil is an old remedy, and fenyl-benzoate is a new sedative with specific action on plain muscle. The other three are known in America as "equivalents" and over here as "substitutes" for veronal, medinal, and novocaine. The classification of adeps, ol. olive and sp. camphoræ as organic chemicals seems strange. There are interesting changes in the processes, for preparing solution of ammonium acetate and liquor plumbi subacetatis, the B.P. cold process being adopted for the latter, with more prolonged digestion (seven days). In general, changes are mainly of detail only, and emphasise the fact that it is becoming more and more difficult to raise pharmacopœial standards. Below are summarised the various alterations:—

### "ADDITIONS," ABRIDGED SPECIFICATIONS:—

**Acid diethylbarbituricum**, diethylbarbituric acid, diethylmalonyl urea, barbital  $\text{CO}(\text{HN} \cdot \text{CO}) \text{C}(\text{C}_2\text{H}_5)_2 = 184.15$ . Colourless or white crystals or white crystalline powder. Odourless and taste slightly bitter. Stable in air. Solubility and melting points are given elsewhere. Saturated aqueous solution, acid to litmus, and gives white precipitate with mercuric nitrate T.S., soluble in excess.

Decomposed with evolution of ammonia on boiling with sodium carbonate T.S., or on fusion with sodium hydroxide. Ash negligible from 0.5 gm.

**Benzylis Benzoas**, benzyl benzoate, to contain not less than 95 per cent.  $\text{C}_6\text{H}_5\text{CO}_2 \cdot \text{C}_6\text{H}_5\text{CH}_2$  (212.17). Colourless oily liquid congealing below  $20^\circ \text{C}$ . "Odourless," or with

faint "odor" of benzaldehyde. Taste, sharp and burning. Insoluble in water or glycerin, miscible with alcohol, chloroform, or ether. S.g. 1.083 to 1.22 at  $25^\circ \text{C}$ . Free acid limit, 0.2 c.c., decinormal sodium hydroxide for 1 c.c. dissolved in neutral alcohol. Flame colouration test with copper wire for "chlorine." Assay by saponification.

**Chaulmoogra oil** (origin, seeds of *Taraktogenos Kurzii*, King Pam, *Flacourtiaceæ*, but o.s. from certain species of *Hydnocarpus* may be used "when agreeing in physical and chemical characters." S.g. about 0.950 at  $25^\circ \text{C}$ , and 0.940 at  $45^\circ \text{C}$ . Specific rotation 10 per cent. w/v chloroform solution,  $+43^\circ$  to  $+60^\circ$ . Free acid in 1 gram of oil not less than 1.3 c.c. nor more than 4.5 c.c. decinormal sodium hydroxide solution when titrated in neutral alcohol with phenol phthalein as indicator. Saponification value, 198 to 213. Iodine value, 98 to 104. "Preserve in well closed containers in a cool place, protected from light."

**Procaine hydrochloridum**, procaine hydrochloride, procaine—procain, para-amino-benzoyl—diethyl-amino—ethanol hydrochloride  $\text{NH}_2(\text{C}_6\text{H}_4\text{CO})\text{OC}_2\text{H}_4\text{N}(\text{C}_2\text{H}_5)_2\text{HCl} = 272.71$ . Small colourless crystals or white crystalline powder, odourless and stable in air. Aqueous solution (1 in 20) is neutral to litmus. Aqueous solution (1 in 20) give precipitates with gold chloride T.S., iodine T.S., mercuric potassium iodide T.S., picric acid T.S., is clearly miscible with solution of sodium bicarbonate, but gives colourless oily precipitate (crystallising in standing) with sodium hydroxide T.S. or sodium carbonate T.S. Tests given to distinguish from phenacaine and cocaine.

**Sodium diethylbarbiturate**, barbitol sodium, white odourless powder, with bitter taste. Aqueous solution alkaline to litmus. Solution (1 in 20) precipitates diethylbarbituric acid on addition of diluted hydrochloric or sulphuric acid. Tests included for readily carbonisable substances, chloride (opalescence), sulphate (turbidity), and uncombined diethylbarbituric acid (limit 0.003 gm. from 0.5 gm.). Assay to yield 88 to 90 per cent. of diethylbarbituric acid.

### ALTERATIONS IN SPECIFICATIONS:—

**Aloin** (insoluble residue not to exceed 1 per cent. instead of 1.5 per cent.).

**Balsamum Peruvianum** ("cinnaein" value changed from "50 to 56" to "50 to 60").

**Benzinum purificatum** (Ang.=petroleum ether). Ranges of specific gravity and distillation widened (s.g. 0.634-0.660 instead of 0.638-0.660 and distilling between  $35^\circ$  and  $80^\circ \text{C}$ . instead of between  $40^\circ$  and  $80^\circ \text{C}$ .).

**Cresotum** (s.g. not below 1.076 at  $25^\circ \text{C}$ . instead of 1.073 and not less than 90 per cent. (instead of 80 per cent.), distils between  $200^\circ \text{C}$ . and  $220^\circ \text{C}$ .).

**Cresol** ("A solution of 1 c.c. of cresol in 60 c.c. of distilled water shows no greater turbidity than that produced in 58 c.c. of distilled water by the addition of 1.5 c.c. of fiftieth normal sulphuric acid and 1 c.c. of barium chloride T.S. Comparison should be made after the control mixture has been well shaken and allowed to stand for five minutes").

**Emetine hydrochloridum** ( $\text{C}_{25}\text{H}_{40}\text{O}_4\text{H}_2$ , 2HCl, with variable amounts of water of crystallisation." Cephaeline test changed, limit 0.004 gm. cephaeline from 0.2 gm. emetine hydrochloride).

**Gelatinum** (0.004 per cent. of sulphur dioxide permitted).

**Gossypium purificatum** (water soluble matter not to exceed 0.25 per cent.).

**Guaiacol** ("A liquid consisting principally of guaiacol,  $\text{C}_6\text{H}_4(\text{OH})\text{OCH}_3$  1:2=124.10, usually obtained from wood creosote, or a solid consisting almost entirely of guaiacol and usually prepared synthetically." S.g., liquid, not below 1.112, melted, solid about 1.132 at  $25^\circ \text{C}$ .).

**Pelletierina tannas** ("A mixture of the tannates of several alkaloids obtained from pomegranate").

**Pepsinum** (The statement of incompatibility of pepsin with alkalies, etc., is omitted, and also reference to activity with hydrochloric acid).

**Petrolatum** ("An unctuous mass, varying in colour from yellowish to light amber. It has not more than a slight fluorescence, even after being melted, and is transparent in thin layers. It is free, or nearly free, from odor or taste").

**Petrolatum album** ("White petrolatum is a white or faintly yellowish unctuous mass transparent in thin layers even after cooling to  $0^\circ \text{C}$ .").

**Phenol aquifacuum**.—Note added: "When phenol is to be mixed with collodion, fixed oils, or petrolatum, use melted crystalline phenol instead of liquid phenol."

**Saccharum**.—"Aqueous solution (1 in 1) is colourless, or at most only faintly yellow when viewed horizontally against a white background through a vertical cylinder of colourless glass having an inside diameter of about 25 mm." Specific gravity of aqueous solution omitted.



**Santoninum.**—Half quantity (1 gram.) now used in test for alkaloids.

**Sp. camphora.**—Specific gravity (0.824 to 0.826 at 25° C.), and optical rotation (not less than 7.25° in 200 mm. tube at 20° C.) added.

**Strychnine nitras and sulphas.**—Solubility in water changed slightly (decreased).

**Talcum purificatum.**—Tests added for carbonate, and bit of amount soluble in dilute hydrochloric acid (0.005 gm. in 0.5 gm.).

#### MODES OF PREPARATION ALTERED:—

**Liquor Ammonii Acetatis.**—Ammonia carbonate and acetic acid made into separate solutions and mixed cautiously in equal volumes "in a capacious vessel in quantities sufficient to produce the amount of solution of ammonium acetate needed.

**Liquor Plumbi Subacetatis.**—Prepared by cold process from lead oxide (40 gm.) made into paste with 100 c.c. water (using further 100 c.c. for rinsing into bottle) adding solution of lead acetate (220 gm. in 700 c.c. distilled water), shaking vigorously for five minutes and setting aside for seven days, shaking frequently during this time. Finally, filter (protecting from undue contact with air), making product up to 1,000 c.c. Alternatively mixed ingredients may be boiled for half hour in flask, adding distilled water to keep up to volume, cooling, and finishing as above.

**ASH LIMITS.**—Acid diethylbarbituricum (negligible from 5 gm.); acidum phenylcinchonicum (negligible from 0.2 gm.); acidum salicylicum (reduced to not more than 0.05 per cent. instead of 0.1 per cent.); acidum tannicum (0.5 per cent. instead of 0.6 per cent.); benzyl benzoate (negligible from 2 c.c.); procaine (negligible from 0.5 gm.); cocaina (negligible from 0.5 gm.); glucosum (0.5 per cent. instead of 1.0 per cent.); morphinae sulphas et hydrochloridum (negligible from 0.5 gm.); pix liquida (not more than 0.25 per cent.); thymolis "iodium" (not more than 1.5 per cent. of sulphated residue).

**"ASSAYS" ADDED.**—Acidum phenylcinchonicum (titrated in neutral alcohol); benzyl benzoate (saponification); caffeine sodio-benzoas (extraction and titration of ingredients), hexamethylenamina (decomposition with sulphuric acid and titration); hydrargyrum salicylas (titration of mercury with decinormal potassium thiocyanate).

**"ASSAYS" ALTERED.**—Acid benzoic (dried at 100° C. for two hours. Allowance for "chloride" made in titration with decinormal barium hydroxide); codeinae phosphas changed to volumetric from gravimetric).

Details of assay of acids to be referred to "General Assay for Acids" in Part II., quantity of substance and indicator only being specified in text.

Electrolytic methods of assay made permissible in case of silver nitrate and copper sulphate.

**CONGEALING POINTS.**—Paraldehydum (not below 9° C. instead of 6° C.); phenol (not below 39° C. instead of 38° C.).

**DEFINITIONS OF SOURCE OMITTED** (probably on ground that sufficiently characterised by chemical formulae).—Acidum benzoicum; aethylmorphinae hydrochloridum; apomorphinae hydrochloridum; atropina; benzaldehydum; codeina; colchicina; eucalyptol; hexamethylenamina; homatropinae hydrobromidum; hyoscyaminae hydrobromidum; iodoformum; menthol.

**DESCRIPTION OF TASTE OMITTED.**—Acidum boricum; aconitina (caution added "it is very poisonous"); antimonii et potassii tartras; betanaphthol; calcichloridum; elaterinum; hydrargyrum chloridum corrosivum ("having a characteristic and persistent metallic taste," and "great caution should be used in tasting it" now omitted); hydrargyri iodidum rubrum; hydrargyrum ammoniatum; potassi permanganas; terpini hydras.

**MELTING POINTS CHANGED.**—Acetanilid, 113° to 115° C. (from 112° to 114°); acetphenetidum, 134° to 135° C. (from 133° to 135° C.); acid. diethylbarbituricum, 187° C. to 190° C. (new); acid. salicylicum, 157° to 159° C. (from 156° to 159° C.); atropine sulphate, not below 188° C. (instead of "it usually melts between 188° and 191° C., but when anhydrous and free from hyoscyamine it melts between 181° and 183° C."); benzosulphinidum (=glusidum), not below 220° C., "absolutely pure" about 228° C. instead of from 219° and 222° C.; phenolphthaleinum, not below 258° C. (instead of not below 253° C.); procaine hydrochloridum, 154° to 150° C. (new); pyrogallol, 130° to 133° C. (formerly from 129° to 133° C.); salicin, 199° to 202° C. (instead of from 198° to 202° C.).

**MOISTURE.**—Aethylmorphinae hydrochloridum (loss at 100° C. not to exceed 10 per cent.); apomorphinae hydrochloridum

(statement omitted concerning loss or gain of water of crystallisation); quinae bisulphas (changed from 25 to 24 per cent.); quinae dihydrochloridum (loss on drying at 100° C. not more than 3 per cent.); quinae sulphas (moisture determined at 100° C. instead of 110° C.); theobrominae sodio salicylas (loss at 120° C. not more than 10 per cent.).

**NO CHANGE.**—Organic chemicals.—Ac. stearicum, aethylis chloridum, antipyrina, bals. toltanum, cera alba, cera flava, cetaceum, cotarninae hydrochloridum, methylthioninae chloridum, oleum gossypii seminis, oleum theobromatis, oleum tiglli, phenylis salicylas, pilocarpinae hydrochloridum, resina, resorcinol, scopalamine hydrobromidum, sebum preparatum, sodii indigotindisulphonas, strophanthinum, trinitrophenol, vanillin.

**Inorganic chemicals.**—Arsenii trioxidum calcii lactas calx chlorinata, ferri chloridum, ferri phosphas solubilis, ferri sulphas, ferri sulphas exsiccat, ferrum, hydrargyrum, potassii bicarbonatis, potassii bitartras, potassii hydroxidum, potassii carbonas, potassii nitras, sodii boras, sodii citras, sodii hydroxidum, sodii nitris, sp. ammoniae aromaticas.

**NON-VOLATILE MATTER LIMITS.**—Acetonum (0.002 gm. from 20 c.c. instead of from 50 c.c.); acid aceticum glaciale (0.002 from 20 c.c.); aether (1.0 mgm. in 50 c.c. instead of 1.5 mgm. in 30 c.c.); ammonium chloride (0.1 per cent. instead of not more than 0.5 per cent.); chloroformum (0.001 gm. from 50 c.c.); benzinum rectificatum (0.001 gm. in 50 c.c. instead of 0.0015 gm.).

**"PURITY RUBRICS" ALTERED.**—Acid. benzoicum (lowered to 99.3 per cent. from 99.5 per cent.); acid. phenylcinchonicum (99 per cent. when dried to constant weight over sulphuric acid); acid. salicylicum (not less than 99.5 per cent. instead of 99.3 per cent.); aether ("contains approximately from 96 to 98 per cent. of (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O" instead "not less than 95.5 per cent. nor more than 97.5 per cent."); caffeine sodio-benzoas ("It contains, when dried to constant weight at 80° C., from 47 to 50 per cent. of anhydrous caffeine and from 50 to 53 per cent. of sodium benzoate," instead of "46 to 50 per cent. of anhydrous caffeine and 50 to 54 per cent. of sodium benzoate"); chloralium hydratum (not less than 99.5 per cent. CCl<sub>3</sub>CHO, H<sub>2</sub>O); hexamethylenamina ("contains not less than 99 per cent. of absolute hexamethylene-tetramine"); liquor formaldehydi ("a solution containing not less than 37 per cent. by weight of H<sub>2</sub>CHO. in water and containing variable amounts of ethyl or methyl alcohol, or both, to prevent polymerisation"); phenol (raised to not less than 98 per cent. of absolute phenol, from 97 per cent.); "phenol liquefactum" (contains not less than 98 per cent. of C<sub>6</sub>H<sub>5</sub>OH, instead of 37 per cent.); plumbi oxidum (not less than 97 per cent., from 95 per cent.); theobrominae sodio-salicylas (contains "not less than 35 per cent. of salicylic acid").

**"SOLUBILITY SPECIFICATIONS" ADDED.**—Acetanilidum (in acetone, 1 gm. in 4 c.c.); acid benzoic (1 gm. in 30 c.c. of carbon disulphide or carbon tetrachloride); acid salicylicum (in acetone, 1 gm. in 3 c.c.); benzaldehydum ("soluble in about 350 times its volume of water"); caffeine (1 gm. in 50 c.c. acetone, and 100 c.c. benzene); camphor (more definitely stated); codeina (1 gm. in 13 c.c. benzene at 25° C.); diethylbarbituric acid (new) (1 gm. in 130 c.c. water, 14 c.c. alcohol, 75 c.c. chloroform, 35 c.c. ether, at 25° C., also in 13 c.c. of boiling water); hexamethylenamina (1 gm. in 10 c.c. chloroform, at 25, only slightly soluble in ether); menthol (freely soluble in glacial acetic acid); paraffinum (freely soluble in chloroform); Petrolatum (changed to "Petrolatum, is insoluble in water, almost insoluble in cold or hot alcohol, or in cold dehydrated alcohol, free soluble in benzene, carbon disulphide, chloroform, or oil of turpentine. It is soluble in ether, petroleum, benzine, or in most fixed or volatile oils, the degree of solubility in these solvents varying with the composition of the Petrolatum"); procaine (new), (1 gm. dissolves in 0.6 c.c. water, and in 30 c.c. alcohol at 25° C. Slightly soluble in chloroform and almost insoluble in ether). Sodium diethylbarbiturate (new), (1 gm. in about 5 c.c. water at 25° C.; also in 2.5 c.c. boiling water. Slightly soluble in alcohol and soluble in ether).

**"TESTS" ADDED.**—Atropinae sulphas, and atropina (colour tests, appearance of aurichloride, tests for "foreign alkaloids," tests for apoatropine and belladonnine); caffeine (iodine test added); cinchoninae sulphas (insoluble tartrate, distinction from cinchonine); copaiba (test for gurjun balsam); morphinae sulphas and morphinae hydrochloridum (colour tests and tests for meconate and "foreign alkaloids").

**"TESTS" ALTERED,** usually made more specific by stating exact amount of materials used in test.—Acidum benzoicum (test for cinnamic acid); acidum citricum (tests for oxalic and tartaric acids); acid tartaricum (1 in 5 aqueous solution replaces 1 in 2 solution in identity test with potassium



acetate); æthylmorphinum hydrochloridum (test for morphine); benzosulphinidum (fusion process modified); betanaphthol (test for alphanaphthol); eucalyptol (test for phenol); glycerinum (for chloride); quina and salts (tests for cinchona alkaloids).

#### TESTS FOR "ACIDITY":—

(a) "Neutral" reaction to litmus of filtered solution from one gram of chemical (acetanilidum and acetphenetidum shaken with 20 c.c. of distilled water for 2 minutes; betanaphthol 100 c.c. of water and 15 minutes' shaking).

(b) Limit of free acid in alkaloidal salts not to exceed 0.5 c.c. of fiftieth normal solution of sodium hydroxide, using methyl red as indicator (amount taken: emetinæ hydrochloridum 0.5 gm. in 10 c.c. water; sodii eacodylas, 2.0 gm. in 50 c.c. water; strychninæ nitras and strychninæ sulphas, 0.5 gm. in 20 c.c. water).

(c) Limits of free acid: (In æther, 0.4 c.c. of fiftieth normal hydrochloric acid for 20 c.c.) In fixed oils given as 1.5 c.c. (oleum lini and oleum ricini and 1 c.c. oleum olivæ) of decinormal solution of sodium hydroxide on titrating 2 grams of oil dissolved in 20 c.c. of neutralised alcohol, using phenolphthalein as indicator.

(d) Potassii citras and potassii et sodii tartras: quantity of solution (1 in 20), not to be "reddened by a drop of phenolphthalein T.S.," is now specified at 10 c.c.

TESTS FOR CHLORINATED PRODUCTS are modified in the cases of benzaldehydum, benzyl benzoate and camphor. "No transient green colour should be imparted to the flame," after allowing substance to burn on cleaned copper wire and holding wire (spiral of which is "about 6 m.m. in diameter and 6 m.m. in length") in edge of a non-luminous flame.

TESTS FOR "IDENTITY" of routine character, are added in a few instances.—Acetonum, acid. aceticum, acid. citricum, acid. trichloroaceticum (altered only), benzosulphinidum, caffein, gelatin, hydrargyri salicylas (slight alteration), paraformaldehydum, potassii acetat, strychninæ nitras.

TESTS FOR READILY CARBONISABLE SUBSTANCES (charring by sulphuric acid) added.—Acid diethylbarbituricum, acid phenylcinchoninum, atropinæ sulphas, cocaina, procaina hydrochloridum.

"TESTS" omitted.—Betaeucainæ hydrochloridum (test with ammonia water); bismuthi subgallas (sulphate test); chrysarobinum (test for chrysophanic acid with ferric chloride); elaterinum (test for readily carbonisable impurities); quina and salts (morphine test); theophylline (test with sulphuric acid and sodium nitrite to distinguish from caffeine and theobromine); thymol (test for phenol).

TURBIDOMETRIC TESTS for quantitative assay of "chloride" and "sulphate" are to be adopted, and will be embodied in Part II. of the Pharmacopœia. Limits are assigned as follows:—

**Chloride:** Amount of fiftieth normal acid used in "control" not to exceed:—Acidum benzoicum (natural acid 0.3 c.c., and synthetic, 0.6 c.c. on 5 gm., tested); adeps and adeps lanæ (0.5 c.c. on 1 gram refluxed with alcohol); hexamethylenamina (0.9 c.c. per gram); sodii eacodylas (0.3 c.c. per gram).

**Sulphate:** Amount of fiftieth normal acid used in "control" not to exceed:—Saccharum (0.3 c.c. on 5 gram); sulphonethylnmethanum (1.0 c.c. on 1 gram).

"UNSAFONIFIABLE MATTER," limits added:—Oleum lini and oleum morrhue (not more than 1.5 per cent.).

year with doctors on the panel lists, he is taking any steps to review the present scheme of medical benefit under the Health Insurance Acts with a view to rendering it more efficient and economical.

Sir W. Joynson-Hicks replied that the existing arrangements for the medical treatment of insured persons are now being examined in detail by the Insurance Consultative Council of the Minister of Health.

#### ALCOHOL A POISON

A private member's Bill, introduced by Mr. Scrymgeour, entitled the Liquor Traffic Prohibition Bill, seeks to prohibit the manufacture, importation, and sale of alcoholic liquors for beverage purposes. The Bill contains the provision that when alcohol is required for medicinal purposes, it is to be supplied only in bottles, labelled "Poison," by properly qualified medical practitioners, or by registered chemists. Further, chemists must supply only on receipt of a medical certificate stating the maximum quantity to be supplied. Such sales will be subject to the provisions of the Pharmacy Act, 1868. It is stated that it is not sought to prejudice or obstruct the manufacture, importation, or sale of alcoholic liquors intended solely for scientific or industrial purposes.

#### TABLE WATERS DUTY

Mr. Sitch asked the Chancellor of the Exchequer, on February 19, whether his attention had been drawn to the evidence provided by the Board of Trade as to the perilous position of the mineral water trade, which proves that in 1922 the output in beverages was 16,487,888 gallons less than in 1921, 18,625,925 gallons less than in 1920, and no less than 28,071,260 gallons less than in 1919; whether he is aware that the leaders in the trade assert that the decline in consumption is largely due to the burden of taxation; and whether he will give this evidence his sympathetic consideration in formulating his next Budget?

Mr. Baldwin replied that he had already received representations in the sense suggested, and they are receiving careful consideration.

#### INSPECTION OF MORPHINE FACTORIES

Lord R. Cecil asked the Home Secretary, on February 19, what arrangements are in force for inspection of morphine factories in this country; and whether he is quite satisfied that adequate measures are taken to prevent abuses in this matter.

Mr. Bridgeman replied that morphine factories are subject to inspection by the Home Office inspectors under the Dangerous Drugs Act. Manufacturers are also required to keep detailed records, and make periodical returns, of their purchases of the raw material, their production of the drug, and their sales, and a licence has to be obtained for each consignment of the drugs which is exported from this country. The Department is doing all that is in their power to check the abuses of the drug traffic, but until full international co-operation has been secured it will be impossible to prevent them altogether.

#### SPIRIT DUTY

Mr. Rawlinson asked the Chancellor of the Exchequer, on February 15, what is the approximate amount of revenue obtained from the Excise duty on commercial alcohol; whether his attention has been called to the fact that the value of alcohol used for commercial purposes is only about 2s. 6d. per proof gallon, but that the Excise duty upon it is £3 12s. 6d. per proof gallon; and whether he will consider the advisability of reducing this excessive duty which is crippling industry, and reimburse the loss by imposing a stamp duty upon bets made in the United Kingdom or upon advertisements displayed in public places?

Mr. Baldwin replied that the information asked for in the first part of the question is not available, as no official record is kept of the uses to which spirit is put after clearance from bond. But the amount of revenue involved is known to be substantial. As regards the actual charge of duty on the spirit in question, the bulk of the spirit, used for commercial purposes is allowed relief from duty. The suggestions as to new taxation in the last part of the question have been noted.

## Westminster Wisdom

By the "C. and D." Parliamentary Representative

### DAUGHTER DRUGS ACT AMENDMENT

The Bill introduced into the House of Commons on February 15, by the Home Secretary, to amend the Dangerous Drugs Act, 1920, and Section 17 of the Pharmacy Act, 1868, and to prescribe the method of calculating percentages in liquid preparations for the purpose of the Poisons and Pharmacy Act, 1908, and the Dangerous Drugs Act, 1920, is printed on p. 263. It was to have been read a second time on February 20, but was not reached.

### MEDICAL BENEFIT

Sir K. Wood, on February 20, asked the Parliamentary Secretary to the Overseas Trade Department, as representing the Ministry of Health, whether, in view of the expiration of the agreements at the end of this



## Poisons Law Amendment

A BILL to amend the Dangerous Drugs Act, 1920, and section seventeen of the Pharmacy Act, 1868, and to prescribe the method of calculating percentages in liquid preparations for the purpose of the Poisons and Pharmacy Act, 1908, and the Dangerous Drugs Act, 1920.

Enacted by the King's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows:—

*Amendment of s. 10 of Dangerous Drugs Act, 1920, 10 & 11 Geo. 5. c. 46.—1.*—(1) The following subsection shall be inserted in section ten of the Dangerous Drugs Act, 1920, after subsection (1) thereof:—

“(1A) If a justice of the peace (or in Scotland either a justice of the peace or a sheriff) is satisfied by information on oath that there is reasonable ground for suspecting that any drugs to which this Act applies are, in contravention of the provisions of this Act or any regulations made thereunder, in the possession or under the control of any person in any premises, or that any document directly or indirectly relating to or connected with any transaction or dealing which would if carried out be, an offence against this Act, or in the case of a transaction or dealing carried out or intended to be carried out in any place outside Great Britain, an offence against the provisions of any corresponding law in force in that place, is in the possession or under the control of any person in any premises, he may grant a search warrant authorising any constable named in the warrant, at any time or times within one month from the date of the warrant, to enter, if need be by force, the premises named in the warrant, and to search the premises and any persons found therein, and, if there is reasonable ground for suspecting that an offence against this Act has been committed in relation to any such drugs which may be found in the premises or in the possession of any such persons, or that any document which may be so found is such a document as aforesaid, to seize and detain those drugs or that document, as the case may be.”

(2) The words “any books or documents” shall be substituted for the words “any books” in subsection (1) of the said section ten, and the words, “any such books, stocks, drugs, or documents” shall be substituted for the words “any such books or stocks” in subsection (2) of that section.

*Amendments of s. 13 of Dangerous Drugs Act, 1920.—2.*—(1) The following subsections shall be substituted for subsections (1) and (2) of section thirteen of the Dangerous Drugs Act, 1920:—

“(1) Any person—

(a) who acts in contravention of or fails to comply with any regulation made under this Act; or

(b) who acts in contravention of or fails to comply with the conditions of any licence issued or authority granted under or in pursuance of this Act; or

(c) who for the purpose of obtaining, whether for himself or for any other person, the issue, grant or renewal of any such licence or authority as aforesaid, makes any declaration or statement which is false in any particular, or knowingly utters, produces or makes use of any such declaration or statement or any document containing the same; or

(d) who in Great Britain aids, abets, counsels or procures the commission in any place outside Great Britain of any offence punishable under the provisions of any corresponding law in force in that place, or does any act preparatory to or in furtherance of any act which if committed in Great Britain would constitute an offence against this Act; shall be guilty of an offence against this Act.”

(2) Every person guilty of an offence against this Act shall in respect of each offence be liable—

(a) on conviction on indictment, to a fine not exceeding one thousand pounds, or to penal servitude for a period not exceeding ten years, or to both such fine and penal servitude; or

(b) on summary conviction, to a fine not exceeding two hundred and fifty pounds, or to imprisonment with or without hard labour for a term not exceeding twelve months, or to both such fine and imprisonment;

and shall in every case on conviction for the offence forfeit to His Majesty all articles in respect of which the offence was committed, and the court before which the offender was convicted may order any forfeited articles to be destroyed or otherwise disposed of as the court thinks fit.”

“One half of the amount of any fine imposed by a court of summary jurisdiction in pursuance of this section in proceedings taken by the direction of a Secretary of State or by, or by the direction of, the Director of Public Prosecu-

tions shall, notwithstanding anything in any other enactment, be paid into the Exchequer in such manner as the Treasury may from time to time direct.”

“(2A) If any person attempts to commit an offence against this Act, or solicits or incites another person to commit such an offence, he shall, without prejudice to any other liability, be liable on summary conviction to the same punishment and forfeiture as if he had committed an offence under this Act.”

(2) The provisions of subsection (3) of section thirteen of the Dangerous Drugs Act, 1920, which relates to the time within which proceedings for an offence against that Act may be brought, shall apply to proceedings for an attempt to commit such an offence as they apply to proceedings for such an offence.

(3) For the purpose of removing doubts it is hereby declared—

(a) that in any proceedings against any person for an offence against the Dangerous Drugs Act, 1920, as amended by this Act, it is not necessary to negative by evidence any licence, authority or other matter of exception or defence, and that the burden of proving any such matter lies on the person seeking to avail himself thereof; and

(b) that, notwithstanding anything in section eighteen of the Criminal Justice Administration Act, 1914, or in any other enactment, any term of imprisonment imposed under section thirteen of the Dangerous Drugs Act, 1920, on any person by a court of summary jurisdiction in respect of the non-payment of a fine for an offence against that Act may be ordered to commence at the expiration of any term of imprisonment imposed on that person for the same offence in addition to the fine.

*Amendment of s. 17 of Pharmacy Act, 1868, as respects sales to medical practitioners, dentists and veterinary surgeons. 31 & 32 Vict. c. 121.—3.*—(1) So much of section seventeen of the Pharmacy Act, 1868 (which prescribes certain regulations to be observed in the sale of poisons), as requires an entry in the book to be kept under that section to be signed by the purchaser, shall not, if the conditions mentioned in this section are fulfilled, apply where the purchaser is a registered medical practitioner, in actual practice, and the purchase is made by him for the purposes of his profession.

(2) The conditions to be fulfilled for the purposes of this section are as follows:—

(a) There must have been received by the seller before the sale an order in writing signed by the purchaser stating his name and address and the name and quantity of the article to be purchased;

(b) The seller must be reasonably satisfied that the signature affixed to the order is in fact the signature of the person purporting to sign it, and that that person is a registered medical practitioner;

(c) The article sold, if sent by post to the purchaser, must be sent by registered post;

(d) The seller must enter in the book, in the column assigned to the signatures of purchasers, the words “signed order” followed by the date on which the order is executed, and must preserve the order for a period of two years from the date on which the final entry in the book is made.

(3) This section applies to registered dentists and registered veterinary surgeons as it applies to registered medical practitioners.

*Calculation of percentages in case of liquid preparations. 8 Edw. 7. c. 55.—4.* For the purposes of the Schedule to the Poisons and Pharmacy Act, 1908, and of section eight of the Dangerous Drugs Act, 1920, percentages in the case of liquid preparations shall, unless other provision in that behalf is made by regulations under those Acts respectively, be calculated on the basis that a preparation containing one per cent. of any substance means a preparation in which one gramme of the substance, if a solid, or one millilitre of the substance, if a liquid, is contained in every one hundred millilitres of the preparation, and so in proportion for any greater or less percentage.

*Short title, interpretation and extent.—5.*—(1) This Act may be cited as the Dangerous Drugs and Poisons (Amendment) Act, 1923.

(2) The expression “corresponding law” in the Dangerous Drugs Act, 1920, as amended by this Act, means any law stated in a certificate purporting to be issued by or on behalf of the government of any country outside Great Britain to be a law providing for the control and regulation in that country of the manufacture, sale, use, export and import of drugs in accordance with the provisions of the International Opium Convention signed at the Hague on the twenty-third day of January, nineteen hundred and twelve.

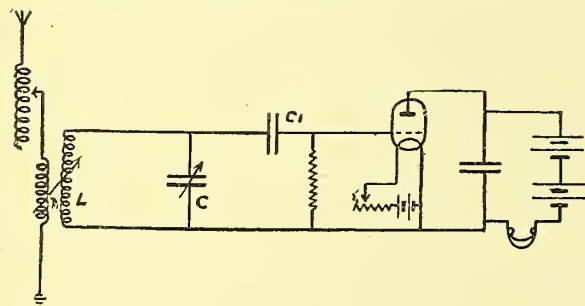
(3) This Act shall not extend to Northern Ireland, except in so far as it amends the Dangerous Drugs Act, 1920, in relation to matters with respect to which the Parliament of Northern Ireland have not power to make laws.



# Practical Wireless Telephony

## XI. The Valve as a Detector

A VALVE may be used to amplify H.F. current to be subsequently rectified by a crystal, but may also be used to rectify H.F. current with or without this previous amplification, and so act as a detector instead of a crystal. The two ways of doing this are known as grid detecting and anode detecting. In the diagram, the secondary circuit L.C. is shown joined between grid and filament by a very high resistance of 500,000 to 1,000,000 ohms, and called a grid leak, while the grid is insulated in the circuit by a condenser ( $C_1$ ). The grid leak is usually either a streak of graphite on an ebonite surface, or a fine line of Indian ink on a dry piece of paper. When no waves are arriving the grid potential will be the same as that of the filament, and a steady current will flow through the filament and through the telephones. When a H.F. wave is received, a varying current will flow in and out of the grid across the condenser. The collecting of the negative charge being in all cases greater than that of the positive charge, and as the grid is insulated by the condenser, these charges cannot escape except by the grid, which consequently accumulates a negative charge and thus rectifies or detects. The resistance of the grid leak is therefore of great importance. If too low, the rectified charge will leak away as fast as it is collected, and the telephone circuit will be insufficiently varied. If, on the other hand, it is too high, atmospheric waves striking the aerial may induce so heavy a charge that the valve is rendered inoperative for several seconds,



while the excess is leaking off, and part of the signal consequently will be missed. The amplifiers used may be divided into two classes—high frequency and low frequency, or note magnifiers. The H.F. amplifiers treat a very weak signal, increase it up to audibility, and pass it on to the detector (whether crystal or valve). L.F. or note amplifiers treat the rectified signal and increase it until it is loud in the telephones. In coupling up valves for amplification, inter-valve transformers are generally used. These are air-cored and possess equal windings very closely applied. The primary circuits are generally made adjustable, and they are designed to be closely in resonance with the waves for the range of the amplifier. In note magnifiers the intervalve transformers used are made with an iron core, as the necessary close coupling cannot be obtained in the circuit without cores to increase the flux. In practice these appliances are fitted and tested by the makers of the instruments, and the user only requires to learn how to obtain the best results from the adjustments provided, a knowledge only acquired by practice. The improvements that are daily being made in everything connected with wireless are more and more surprising. Only recently an announcement was made that by the use of thorium oxide on the filament the efficiency of the valve has been largely increased, while new methods of amplification are constantly being devised, such as microphonic attachments to the telephones or modifications of the sound boxes and trumpets of telephones of the loud speaking type.

RADIUM at £15 a milligram is being offered by the Société Générale de Métallurgie de Belgique, extracted from ores mined in the Belgian Congo at the company's factory at Olen, near Antwerp, where 3 grams of radium is being produced monthly. The ore is stated to contain 175 milligrams of radium to the ton.

# Recent Patents

Abstracts of specifications of recently-granted British patents for inventions. The complete specification (if, each including postage) can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

**Arsenical Insecticide.**—A process for preparing arsenical solutions for use as insecticides or for impregnating wood by dissolving compounds of arsenic in an organic solvent to which a halogen compound is added. (A. Mai. 191,793.)

**Hypodermic Syringe.**—An all-glass syringe, characterised by the fact that the bottom of the bore of the cylinder is dome-shaped and provided with a small conical opening into which the needle holder is fitted. The inner end of the piston corresponds in shape with that of the cylinder. (L. Perruchini. 191,761.)

## FRENCH PATENTS

**Removal of Proteins from Sera.**—A process for removing albumins from sera characterised by neutralising the latter and precipitating the proteins by means of acetone or alcohol. (M. Piettre and A. Vila. B.F. 537,644.)

**Preservation Test for Organic Arsenic Compounds.**—A test designed to ascertain the state of preservation and demonstrate the correct preparation of organic compounds of arsenic, such as arsenobenzols, based on the fact that an altered compound changes the colour of a colloidal solution of silver sensitised by the addition of a trace of colloidal mercury and rendered isotonic by adding pure glucose. (P. Bevengut. B.F. 540,391.)

## GERMAN PATENTS

**Ethyl Chloride Manufacture.**—Ethylene, or dry water gas containing ethylene and dry hydrochloric acid gas are heated to a temperature of 250° C. in the presence of pumice stone, earthenware or porcelain fragments and a catalyst, such as an oxide of a heavy metal. (Farbenfabriken vorm. Friedr. Bayer & Co. D.R.P. 361,041.)

**Triarylstibin Hydroxides and Oxides.**—Sodium peroxide is added to a cooled suspension of triphenylstibin in water. After standing for twenty-four hours, during which the mixture is frequently shaken, dilute hydrochloric acid is added to produce a faint acid reaction; the precipitate is then crystallised from glacial acetic acid. (L. Kaufmann. D.R.P. 360,973.)

**Fat-Soluble Silver Compounds.**—A silver compound soluble in chloroform and in oils is obtainable by the interaction of silver nitrate with a hydrocuprein derivative, such as isoamylhydrocuprein, in alcohol. The resulting precipitate is crystallised from alcohol; it contains from 18 to 19.5 per cent. of silver, according to the derivative used. These compounds are stated to possess a powerful bactericidal action. (W. Spitz. D.R.P. 360,490.)

**Lobeline.**—The crude alkaloids extracted from lobelia leaves are dissolved in normal hydrochloric acid, whereupon ether and a small amount of normal solution of sodium hydroxide are added. The ether, which contains chlorophyll bases, is removed, and fresh ether is added, as well as a larger amount of normal solution of sodium hydroxide. On evaporation the ethereal solution yields a residue containing crystals of  $\alpha$ -lobeline, which are purified by treatment with cold ether. The pure base melts at 127° C. From 50 kilos. of leaves it is possible to obtain 30 to 37 grams of crystalline  $\alpha$ -lobeline. (C. H. Boehringer Sohn. D.R.P. 362,380.)

## UNITED STATES PATENTS

**Glycols.**—Process for preparing glycols by hydrolysing a chlorhydrin by the action of a solution of an alkali metal bicarbonate. (Union Carbide Co. U.S. Pat. 1,442,386.)

**Purification of Isopropyl Ether.**—Process consisting of adding sulphuric acid (65-80 per cent.) to isopropyl ether, and diluting the resulting solution whereby the ether separates out. (Standard Development Co. U.S. Pat. 1,442,520.)



## Marriages

**PIRRIE-DUGUID.**—At the Imperial Hotel, Aberdeen, on February 7, by the Rev. J. S. Otty, M.A., B.D., George Pirrie, Ph.C., Rothiemay, to Ellie, elder daughter of Mr. Duguid, 82 Great Northern Road, Kittybrewster, Aberdeen.

**STURTON-FOULDS.**—At Uxbridge Road Baptist Tabernacle, Shepherd's Bush, London, W.12, on February 6, by the Rev. M. E. Aubrey, M.A., David Allan Sturton, M.P.S., Cambridge, to Maud Elizabeth Foulds, Kettering.

## Deaths

**BROWN.**—At 17 Outram Road, Addiscombe, Croydon, on February 19, Mr. Alfred Duncombe Brown, Ph.C., aged sixty-seven.

**CASTOLDI.**—The death, at the age of fifty-nine, is announced from Milan of Cavaliere Dr. Arturo Castoldi, editor of the "Bollettino Chimico-Farmaceutico" and owner of the historic Farmacia di Bvera in Milan. By nature of a retiring disposition, Dr. Castoldi shrank from appearing in the limelight, yet he exercised an immense influence, owing to the general esteem in which he was held by all Italian pharmacists. An indefatigable writer and investigator, particularly as an analyst, he was the author of a number of text-books and compendiums. As a sign of the loss sustained by the profession, all the pharmacies of Milan had their shutters up during the funeral, which was attended by representatives of various professional associations, state and municipal bodies and a number of high officials.

**DAVIES.**—Recently, after a brief illness, Mr. Daniel Thomas Davies, chemist and druggist, Bushey Heath, formerly of Hampstead, London, N.W. Mr. Davies qualified in 1882.

**HALHEAD.**—At St. Helier, Foxley Hill Road, Purley, on February 9, suddenly, Mr. John Armstead Halhead, chemist and druggist, aged sixty-eight. After qualifying in 1876, Mr. Halhead became assistant to Mr. Pattinson, Carlisle, and subsequently commenced business for himself at Denton Holme. He retired, owing to illness, in 1893, and removed to Purley in 1908. Mr. Halhead was a well-known bowler, and while in Cumberland won the gold medal at the Border bowling tournament and the gold medal of the West End Bowling Club, Carlisle, of which he was one of the founders.

**PANTANALLI.**—At St. Josse-ten-Noode, Belgium, on February 14, Monsieur Eugène Pantanalli, aged forty-five. The late M. Pantanalli was formerly proprietor of the business of Arthur & Co., drug merchants, 21 Mincing Lane, London, E.C. 3.

**PARISH.**—At the Hafod, Grange Road, West Bromwich, on February 12, Mr. Henry Parish, M.B.E., retired chemist and druggist. Mr. Parish, who was registered as in business before August 1, 1868, carried on a pharmacy in Birmingham Street, Oldbury. He received the M.B.E. for work on behalf of the Soldiers' and Sailors' Families' Association during the war.

**ROSS.**—At 40 Albany Terrace, Dundee, on February 15, following pneumonia, Mr. Alexander Hovels Ross, chemist and druggist, 13 Strathmartine Road, aged fifty-one. Mr. Ross, who was a native of Kirriemuir, had carried on business in Dundee for the past twenty-six years. He was the winner of several trophies in golf, and was also a keen angler and bowler. He is survived by a widow and a son.

**WILLIAMS.**—On February 8, Mr. Ernest Williams, chemist and druggist, 1 Arivenack Street, Falmouth, aged fifty-one. Mr. Williams served for many years on the Falmouth Town Council (of which he became an alderman), the Falmouth Harbour Board, and the Falmouth and Truro Port Sanitary Authority.

**WRIGHT.**—At a Perth nursing home, on February 10, Mr. Robert A. Wright, late with T. and H. Smith, Ltd., manufacturing chemists, Edinburgh, aged sixty-four.

## Personalities

**MR. R. D. SILVER**, chemist and druggist, Market Place, Kettering, has been elected President of the Kettering Chamber of Trade.

**MR. J. COFMAN-NICORESTI**, M.P.S., managing director of Cofman's Pharmacies, Ltd., has been elected a Fellow of the Chemical Society.

**MR. DOUGLAS EWART QUICK**, on production of the necessary diplomas, has been granted permission by the Royal Court of Jersey to practise as a chemist in the Island.

**MR. JOSHUA MOORE**, chemist and druggist, Lytham, who was at one time in business in Preston as a wholesale druggist, has been appointed a justice of the peace for the county of Lancashire.

AMONG the re-elections to their local trade protection societies are Mr. E. Widgery, Ph.C., Weston-super-Mare, and Mr. J. Meadowcroft, J.P. (W. Meadowcroft & Son, Ltd., essential oil importers), Blackburn, as director and Vice-President respectively.

**MR. J. H. TAYLOR**, chemist and druggist, St. Anne's-on-the-Sea, has been appointed a justice of the peace for the county of Lancashire. Mr. Taylor has for many years taken a prominent part in local affairs, and is a governor of the Lytham charities.

At the recent annual dinner of the Bath Chamber of Commerce, at which Sir William Joynson-Hicks, M.P., was the principal guest, Mr. David A. Evans, pharmacist, proprietor of Steele & Marsh, 6 Milsom Street, was presented with a gold medallion and an illuminated address expressing the appreciation of the members for his services to the Chamber during his three years' presidency.

INTERVIEWS with Miss Helena Stewart, chemist and druggist, Dorset Street, London, N.W. 1, accompanied by photographs, have appeared in some of the London daily papers during the past week. Miss Stewart, who qualified last September, proposes to "make a speciality of looking after business girls and helping them to keep fit."

**MR. H. P. KACHARIA**, of D. H. Jeewandas & Co., Karachi and Bombay, is now in this country for the purpose of making purchases of toilet requisites, patent medicines, etc., on behalf of his firm. Correspondence may be addressed to c/o James Smith & Partners, Ltd., Camomile Street Chambers, Camomile Street, London, E.C. 3.

**SIR ALFRED YARROW**, of the well-known shipbuilding and engineering firm, has given £100,000 to the Royal Society for the promotion of scientific investigation and the encouragement of original research, expressing at the same time the wish that the money be used to aid scientific workers by adequate payment and by the supply of apparatus or other facilities.

PRESENTATIONS have been made by Burroughs Wellcome & Co. to Mr. James Clark, Ph.C., head of the home department at the chief offices, who has received an 18-carat gold watch with inscription, and to Mr. Clifton Pari Tregellas, Ph.C., head of the stock department at the "Wellcome" Chemical Works, Dartford, whose gift takes the form of an oak canteen bearing an inscription and containing cutlery, forks and spoons. Both of these gentlemen have completed twenty-one years' service with the firm.

AMONG those present at Keswick, on February 13, when Bro. S. Carlton Farrer, S.W., was installed Worshipful Master of Greta Lodge, No. 1.073, were Wor. Bro. J. Cowper, Ph.C., Penrith; Bro. G. Middleton (Allen & Hanburys, Ltd.); Bro. A. H. G. Boggis (Ayrton, Saunders & Co., Ltd.); and Bro. Philip S. Robbins (Evans Sons Lescher & Webb, Ltd.). Songs contributed by the last-named were much appreciated. Part of the ceremony was taken by Wor. Bro. T. T. Townley (chemist and druggist, Keswick), P.P.G.D. of C. Wor. Bro. Farrer, chemist and druggist, was formerly in business in Keswick, but removed to Ulverston some four years ago.



## Trade Notes

**BOOTHROYD EMULSIFIER.**—Particulars of this machine for mixing and emulsifying are given in the advertisement of H. T. Boothroyd, Ltd., Bootle.

**KANDLETS** are candles that burn for a hundred hours for 1d. Chemists are being appointed as agents for the supply of Kandlets by T. H. Ford, Ltd., 6 Well Street, London, E.C.1.

**SUPERFLOLO LTD.**, 5 Hanover Street, Regent Street, London, W.1, offer bulk perfumes in the manufacture of which only natural essences and essential oils have been employed.

**SANITAS EMBROCATION.**—A reproduction is given of the advertisement of The "Sanitas" Co., Ltd., which appeared in the "Daily Mail" of February 17. The company are offering special terms for the sale of "Sanitas" Embrocation.

**KI-UMA.**—We have referred on several occasions to Ki-uma, the remedy made by Ki-uma, Ltd., 6 Milsom Street, Bath. The company in this issue give a selection of the testimonials that have been received as to the efficacy of the remedy.

**SURGICAL DRESSINGS.**—Southall Bros. & Barclay, Ltd., Birmingham, have issued a price-list of surgical dressings, fulfilling the requirements of the new provisions of the Insurance Drug Tariff. A copy of the list will be sent on application.

**PEARS' WINDOW COMPETITION.**—Full details are given in the advertisement of A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C.1, of the window display competition referred to last week. The last day for receiving photographs and essays is May 7, but orders must be sent in by March 26.

**PERCY PENGUIN'S SOAP DISPLAY.**—Thos. Christy & Co., 4 to 12 Old Swan Lane, Upper Thames Street, London, E.C.4, are offering a novel window display to purchasers of six dozen of the Percy Penguin's soap. This takes the form of an iceberg background with models of penguins posed in front. Chemists should obtain particulars of the displays, as they have proved very effective as selling agents.

**NEW NORWEGIAN COD-LIVER OIL.**—The first sample of new season's (1923) finest Lofoten non-freezing cod-liver oil to reach us this year is from Freudentheil, Smith & Co., 21 Mincing Lane, London, E.C.3, agents for Brødr Aarsæther a/s., Aalesund, Norway. The sample is very pale and up to its usual high standard of quality. We are informed that the vitamin contents have been specially protected in the refining process.

**PRINTING ON GLASS** is one of the most difficult feats of typography, but Mr. Gibbard Hughes has perfected a process of indelibly printing upon glass. In the samples he sends us, the printing is as fine and clear as the best book letterpress, executed in black, white or colours. It is fired into the glass, and is as resistant to heat and chemical action as the glass itself. The process is already largely used for ampoules which are intended to contain vaccines or serums, and makers of both will appreciate the convenience of having the ampoules indelibly labelled before the filling process. The cost of glass printing is probably not greater than the total cost incurred in the use of paper labels. One of the large producers of vaccines has found that members of the medical profession prefer printed glass to paper labels for several reasons. A company has been formed under the title of Glass Printers, Ltd., to work the process, and it has established a factory at Frognal Avenue, Harrow.

**U.S. SUGAR CONSUMPTION IN 1922.**—Basing the population of the United States as 110,000,000, the *per capita* consumption of sugar consumed in 1922 was 102 lb., according to an estimate made by the American Sugar Bulletin. In 1922 the total amount of sugar consumed was 5,010,757 tons, an increase of 17½ per cent. over 1921. Eight hundred and twenty thousand tons of refined sugar went to sixty foreign countries.

## Coming Events

### Monday, February 26

**Sheffield (No. 5) Branch of the Retail Pharmacists' Union** Y.M.C.A. Rooms, Fargate, at 8.30 p.m. Meeting to consider forthcoming London Conference.

### Wednesday, February 28

**Dundee Pharmacy Golf Club**, Kidd's Tea Rooms, Reform Street at 7 p.m. Whist drive and supper. Tickets (7s. 6d. each from Mr. Ferrier, 2 Hill Town.

**Liverpool Chemists' Association**, Royal Institution, Colquhoun Street, at 8 p.m. Mr. F. Wokes, Ph.C., B.Sc., A.I.C., on "The Biological Significance of Enzymes." Lantern illustrations.

**Manchester and Salford Chemists' Assistants' Association**, Metro Café. Debate on "Are Hobbies Essential to Success in Business?"

**Royal Society of Arts**, John Street, Adelphi, London, W.C. "Heat-resisting Glasses," by Prof. W. E. S. Turner, O.B.E.

**Salford Pharmaceutical Association**. Annual dinner.

**The Thames Valley District Pharmacists' Association**, Kingston Hotel, Kingston-on-Thames, at 2.45 p.m. Papers by (I.) Mr. Tims on "Stock-keeping," and (II.) Mr. Harrison on "The Cash Book."

### Thursday, March 1

**The Chemical Society**, Burlington House, Piccadilly, London, W.1, at 8 p.m. Papers on "Co-ordination Compounds and the Bohr Atom," by N. V. Sidgwick; "Silver Salvarsan," by W. H. Gray; "On the Propagation of the Explosion-wave through Gaseous Mixtures," by H. B. Dixon.

**National Drug and Chemical Union (Retail Sections)**, Minerva Café, 144 High Holborn, at 7.30 p.m. Whist drive. (Tickets 2s. each).

### Friday, March 2

**Royal Institution of Great Britain**, Albemarle Street, Piccadilly, London, W.1, at 9 p.m. George C. Simpson, F.R.S., on "The Water in the Atmosphere."

**LONDON CHEMISTS' GOLFING SOCIETY.**—The annual meeting will be held at 17 Bloomsbury Square, W.C., on March 1, at 8 p.m. Annual dinner on March 8 at 6.30 p.m. Tickets (12s. 6d. each) from the secretary, Mr. Deeth. Ladies invited.

**PETERBOROUGH CHEMISTS' ASSOCIATION.**—The annual dinner will be held at the Angel Hotel on March 8, at 6.15 p.m. Tickets (6s. each) from Mr. Chas. Hamson, 46 Cowgate, Peterborough.

## Information Department

### INFORMATION WANTED

S/202. "Capsules Pourlesden"	L/162. Primrose theatrical grease paints
M/162. Ellen Beresford's hair food	B/212. Riley's (late of Appold Street) trusses
S/212. Glyco-atophan	S/212. Sacco (present supply)
S/212. Halviva Kreat (present address)	W/202. Sturgess' "Golden Oil"
A/172. "Itutex" or "Hutex" Canadian tooth brush	S/212. Terrol disinfectant
M/172. "Liberty" silver arch support	M/212. Thermol wool
C/172. Novochinosin tablets	M/172. Vulnoplant (makers or agents)
B/16a. "Polti" cataplasma kaolini	A/172. Wilson's "Loto" hair wash

### INFORMATION SUPPLIED

Adrenc-spermin Co. C/162	Kugloids. S/122
Aluminium screw stoppers. C/142	Lescol perfumery products. A/122
Ballard's Horehound Syrup. A/122	Minaret Shampoos. R/132
Baromol. S/104	Naturalists' supplies, cases, cabinets, etc. P/52
Battle's Papain. S/192	O.S. Tooth Blocks. E/12
Bell Tongue Syrup. A/82	Perfumed cards. M/212
Bloc Hyalin. T/132	Perfumed cards and sachets. H/62
"Bromo" toilet paper. A/122	Planten's gelatine capsules. F/192
Coty's perfumes. K/82	Poehl's Sperminum. S/192
Covered pots. S/102	Resinol Ointment. T/162
Cyllin. B/62	"Revivules." D/22
"Distaff" Dye. S/62	Richter's pain killer. S/192
Dr. Walker's Vinegar Bitters. A/82	Sanum Foods. M/62
Dutch Drops (original). S/311	"Septon." S/102
Eusol disinfectant. L/72	"Sidnam" nebulizers. M/162
Feeding bottle brushes. B/172	Stone's analytical balances. A/172
Graefenberg's Uterine Catholium. A/82	"Three-in-One" Oil. W/172
Hawley's sugar of milk. S/62	Valda Pastilles. S/122
Huebigant's perfumes. K/82	Velpeau Crêpe Bandages. E/12
Jubol Tablets. G/212	Velvenc Cream. L/92
Kennedy's favorite Prescription. A/122	Vergotinine. S/62
Kerol disinfectant. B/62	Young's metal bins. A/52



## Observations and Reflections

By Xrayser II.

### Dr. Tocher's Address

on the Sale of Food and Drugs Acts, and the discussion that followed it, raise several questions of great interest and importance. One of the chief of these is the method of taking samples. If this is done in a shop full of people it certainly lays the pharmacist under suspicion in the minds of those present, and the injustice thus done is equally great in the case of the grocer. I cannot see that any case was made out for differentiation of method between the two. Nor can I see any real analogy between the case of the doctor who dispenses his own prescription and the pharmacist. The pharmacist is bound by the Pharmacopœia, but the doctor is not; he can legitimately give extra-pharmacopœial medicines if he likes to do so, but the pharmacist must dispense precisely what is ordered. Even he, as Mr. Wilson said, may legitimately have unstandardised preparations in his possession if he does not vend them as standardised; the doctor gives what he thinks proper, not necessarily what the B.P. orders. Mr. A. Currie said that in an experience of twenty-five years he had only once been visited by a sampling officer. My experience is longer than his and I have never been visited at all.

### Dr. F. W. Crossley-Holland

is not, I am afraid, a diligent reader of the *C. & D.*, or he would have known that the ethics of pharmacy have recently been codified with even meticulous care by the American Pharmaceutical Association (see *C. & D.*, January 13, p. 49). So far as mere arrangement goes, I prefer the American codification to his. It comprises our duties under three heads: (1) to the public, (2) to the physician, (3) to one another, and it seems to me that by splitting the first of these in two Dr. Crossley-Holland only confuses matters. The distinction between patients and clients is a mistake, for when a patient brings us a prescription to dispense he becomes a client. What the doctor says under the various heads is for the most part sound, but some of his dicta hardly come under the definition of ethics. The appeal to quality, for instance, in case of a dispute about price is mere commonsense. There is nothing ethical about it. A good deal of what is said about our duty to the patient would be at least equally appropriate under the head of our duty to the physician, and one of the sentences under the latter is questionable. We are told that it is quite legitimate on our part to ask a doctor to suggest one's pharmacy to a patient. Is it, then, legitimate for a doctor to do it? If not, why not? Yet we should justly resent a direction from the doctor to take his prescription to any particular chemist, and coming from such a quarter there is little difference, for many people, between a suggestion and a direction.

### The Slaughter of the Innocents

still goes on. Eastbourne has fallen, and Rhyl, or so I suppose, for neither of these places, surely, proposes to run two organisations side by side. It is true these local bodies are consenting to their own death, though not, in most cases, without manifest misgivings. Mr. White's eloquence overcame the scruples of the Eastbourners: Mr. Moreton Parry sufficed for Rhyl. Meanwhile a little drama is being enacted at Hull which might well give pause to this movement. The local Association there is up in arms against a decision of the Society that the Hull Technical College is not competent to teach botany. The odds are that there are men in Hull as well able to judge whether this is so or not as anybody the Society can send down, but in any case the slur on the town is one that is naturally resented and it ought not to be cast upon it over the heads of the local Association. A "strong letter" of protest is, quite properly, to be sent to the Society. Now there can be no question that in a dispute of this kind an independent association has a

great advantage over a dependent and subsidised branch. It is exactly the sort of case I have foreseen, and foretold, since the formation of these branches out of local associations began. I shall not be surprised if a good many branches have occasion before long to echo the cry of the Country Mouse in Pope's version of the old fable:

"Give me again my hollow tree,  
A crust of bread, and liberty!"

### I am Indebted

to Mr. Richards. "Salve" does occur in both our versions of the Bible, in the compound "eyesalve," of Rev. 3, 18. This dates from Tindale's version of 1526, where, however, it appears as two words, without even a hyphen. Milton has the compound:—"If we will but purge with sovraín eyesalve that intellectual ray which God hath planted in us."

### Mr. Bernard Shaw's Diatribe

against disinfectants and "Listerism" in "The Nation and the Athenæum," will have been read with amusement by those pharmacists who happen to have come across it. The Jenner centenary has evidently acted on Mr. Shaw as a red rag does on a bull, and he "goes for" Jenner, Lister, Pasteur, and all that they stand for in a perfect fury of anger. I do not know what Sir Almroth Wright will think of his championship, but I suspect he must find it rather embarrassing, unless he regards it with a smile as merely "pretty Fanny's way." There was a time when Mr. Shaw was generally taken for a *farceur*, and it would be charitable to suppose that he is not altogether in earnest in his denunciation of the most notable discoveries of modern medicine and the profession which, as he holds, dishonestly thrives upon them; but he has proved to be quite serious in some of his earlier extravagances, and must, I am afraid, be taken seriously now. Fortunately he exaggerates whatever grain of truth there may be in his view of official medical practice so grossly as to put himself entirely out of court with reasonable people. It is simply unbelievable that the whole medical profession, with the exception of a few friends of Mr. Shaw's, are in a conspiracy to hoodwink and defraud the public. But in his maddest vagaries Mr. Shaw manages, somehow, to be amusing.

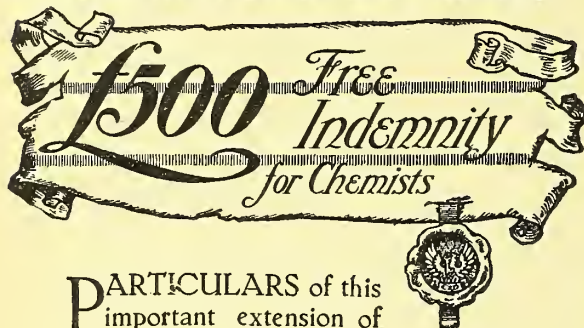
### The Salary Question

appears to be getting acute again. There has, I fancy, been a drop in salaries at least commensurate with that in the cost of living, if not more than that. "Jay Mack's" remark about the value of fledglings with nothing to recommend them, but the Minor certificate not unnaturally provokes the question what he would think of £3 a week. What I think—or rather am sure of—is that no married man, even if he had no children, could live decently on that salary in London to-day, and I should be sorry for one who had to manage on £4, whether he had the Minor certificate or not. I have no doubt many do manage, but their lives must be "bound in shallows and in miseries." Fifteen years ago a chemist in business in a good class London suburb assured me he was not making a net profit (income) of £200 a year, and that he didn't believe any of his neighbours were. Times have changed since then, but if we assume that chemists' incomes have doubled, or even trebled, £4 a week is a huge slice out of them, with the cost of living what it is. This is the dilemma: We can't pay so much; assistants can't live on less. I notice in your Coloured Supplement for this week that in no single case do advertisers for assistants state what salary they offer, or assistants what they demand. This is always a sign of depression in our particular labour market. This, too, is the problem the Council, or the Retail Pharmacists' Union, or both, ought to solve before they even think of increasing our burdens by increased stringency in the examinations. To put it brutally, pharmacy is worth exactly what it will fetch in the market, and if they can't raise its price there it is a crime against their order to increase its cost to us.



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## Editorial Articles

### Poisons Law Amendment

REPRESSIVE legislation is dear to the hearts of all autocrats, no matter by what other name they are called. The abuses of narcotic drugs which developed from abnormal world conditions, including clumsy efforts at repression, have led one nation after the other to legislate in a piecemeal fashion. True it is that they are only endeavouring to carry out the Hague Convention, as

confirmed by the Treaty of Versailles. The root of the trouble is quite a simple one, and it is only by confusion of manufacturing with distribution on national lines which has produced laws which vary according to the country. The first important mistake made by legislators was to ignore the men who knew anything about poisons and the best way to regulate both manufacture and distribution. A Dangerous Drugs Bill was launched without any consideration or apparently even a knowledge of all the conditions and restrictions which already governed the handling of poisons in this country. After the Bill had been printed the trouble began, and the compromise which resulted left an amount of soreness which was quite unnecessary. It should be noted, however, that the amending Bill now presented to Parliament is not merely one affecting the Dangerous Drugs Act, it includes amendments of Section 17 of the Pharmacy Act, 1868, and the schedule to the Poisons and Pharmacy Act, 1908. A large number of correspondents have called our attention to the growing activity of the inspectors now visiting chemists' shops. They appear to have the capacity for fastening on details. The question of a licence fee for wholesale transactions and the need for money for administration purposes, through these same inspectors, brought to light the fact that an enormous number of medical men, and dentists, bought their usual supplies from the local chemist. This placed the chemist in a cleft stick. So far as the Regulations affected him, he was in order, just so long as the authorities regarded the supply as a retail transaction to an authorised person. But he came within the Pharmacy Acts if he did not secure the signature of the medical man or dentist in the Poisons Book. Our advice to inquirers has been that this should be done. Clause 3 of the Amending Bill is designed to meet these conditions; it makes legal the anomaly that one can deal in a wholesale manner with an "authorised person" without paying the wholesaler's licence fee, but it does so by altering Section 17 of the Pharmacy Act, 1868. It is not quite clear how far Clause 3 goes; presumably it affects only the sale of morphine, heroin and cocaine, since the parent Act, to which this is an amendment, only deals with these poisons, but there is nothing in the clause to indicate that this is so. In any case, we have here one Government department interfering with the duties of another Government department. Whether the Privy Council and the Home Office have agreed to tamper with the Pharmacy Act, 1868, we do not know, but as it makes for simplicity no chemist need mind. This is not all: we find Clause 4 prescribes the calculation of "percentages" in case of liquid preparations. The clause reads:

4. For the purposes of the Schedule to the Poisons and Pharmacy Act, 1908, and of section eight of the Dangerous Drugs Act, 1920, percentages in the case of liquid preparations shall, unless other provision in that behalf is made by regulations under those Acts respectively, be calculated on the basis that a preparation containing 1 per cent. of any substance means a preparation in which 1 gramme of the substance, if a solid, or 1 millilitre of the substance, if a liquid, is contained in every 100 millilitres of the preparation, and so in proportion for any greater or less percentage.

We thought the laws of percentage were immutable, that like in like was sufficient for ordinary human beings. Evidently that is a mistake; "percentage" is made to order at the request of a Government department. It is interesting to examine this question a little further, as it throws a light on how we are governed. So far as morphine, cocaine and ecgonine the question does not



...; they are either well without or well within the calculations. On the other hand, with diamorphine hydrochloride, half a grain in one fluid ounce is fairly common; if it were a watery solution it is on the border-line, but being usually in a denser menstruum, it was easily outside the Act. On this point we laid down well-defined weight limits, now almost made official, but at the same time showed how weight in weight or volume in volume was the only true arithmetical basis upon which to work. Some correspondence ("meddlesomeness") with the Home Office arose from the outside, suggesting that weight in volume was the proper method of calculating percentage in these cases. For some strange reason, in order to meet what appears to be the only case affected—namely, diamorphine linctus—the usual methods must be rejected, and the help of Parliament is sought to justify this decision by making it a law that percentage in "dangerous" drugs may be a different thing from percentage in anything else. Worse still, they seek to justify themselves by decreeing that it shall extend to the poisons schedule of the Poisons and Pharmacy Act, 1908. Folly lies on folly when amateurs dabble in things they do not understand. Fortunately, it entails no serious consequences, and by eliminating all question of specific gravity many will be thankful; but when this Bill becomes law it will be necessary to revise certain percentages where allowances had to be made weight in weight by specific gravity. Clauses 1 and 2 are not specifically devised for the benefit or otherwise of pharmacy, but include an extension or indictment of the vindictive element which is noticed in the original Act, the penalty being one thousand pounds or penal servitude not exceeding ten years, or to both such a fine and penal servitude. The summary conviction one is also changed. The complaint made against these penal clauses is that to the ordinary magistrate any trivial offence against the Act by a chemist appears to be a major offence because of these excessive penalties. No right-minded person condones the traffic in these drugs, no right-minded person wishes to be mixed up with the traffic in any way, but all will agree that whatever amendment of the law is necessary, the needful thing is to remove needless restrictions from the legitimate use of the drugs. The sources of supply are few and well known, and international action is indicated towards regulating the amount manufactured consonant with the legitimate use. We note that the expenses of administration are increasing, and the Bill enables the Treasury to share in the fine. How far the councils of the Pharmaceutical Societies share in or have been consulted over the production of this amending Bill is not known; but they have acquiesced it would be interesting to know what has been secured, apart from legitimising their action of Clause 3, in return for being a party to further vindictive legislation. Since the title of the amending Bill includes section 17 of the Pharmacy Act, 1868, it follows that amendments to this section may arise from undesirable quarters. How far the Council of the Pharmaceutical Society of Great Britain has considered the point of rendering itself vulnerable to attack, is as uncertain as several other points in connection with the Bill. Summarised, the amending Bill will cover: (1) Power of search for dangerous drugs where suspected; (2) the provision of documents and drugs to the inspector; (3) the making or assisting to make a false declaration; enormously increasing the penalties, the Treasury having a pecuniary interest in the fines; (4) the purchase of supplies locally; and (5) the specification of a "percentage" basis.

### Chemists and the Budget

IN suggesting that chemists and druggists should not delay to press their claims to be considered in the allocation of any surplus the Budget may place at the disposal of the Chancellor of the Exchequer, we do not overlook the fact that there is wisdom in the proverb which warns us against a premature counting of our chickens. There may, of course, be no surplus to employ in remission of existing taxation. On the other hand, those best qualified to judge anticipate that the country's next annual balance-sheet will show a fairly substantial excess on the right side, in spite of the fact that as a nation we are too proud to follow the example of so many other nations in declining to pay our legal debts, and so have recently assumed obligations which make a serious drain on the resources of our Treasury. In such an event, and if the Chancellor has any fiscal favours to distribute, we may feel sure that meritorious and deserving suitors will not be wanting. Those who pay income tax, those who pay corporation profits tax, and those who pay beer duty may all be expected to be insistent that their burdens shall be lightened. And in the competing claims for relief those are likely to be overlooked which are not pushed upon the Chancellor's notice in due time and with sufficient energy. It would be a pity if the special claims of chemists and druggists were allowed to suffer in this respect. Members of this body are not only sufferers with the rest of the community from the common burden of general taxation, such as income tax: they have special fiscal grievances which can fairly claim special consideration in the coming Budget. To take the case of the duty on spirits. Spirits, it hardly needs to be said, are fairly extensively used in the preparation of articles entering into the stock of chemists. There is no question of these preparations being alcoholic beverages, or used as substitutes for ordinary alcoholic beverages, so that they cannot be said to replace or compete with the ordinary dutiable spirits intended for potable purposes, yet they are placed in this anomalous position towards taxation that while they are not taxed to the full extent of the war duty of 74s. the proof gallon, they are still subject to the pre-war rate of duty of 14s. 9d. the gallon. The incongruity of the position will, we hope, be pressed upon the Chancellor, if for no other reason than that it would be interesting to know what could be the type of official argument to be put up in support of anything so anomalous. Our Finance Acts since 1915 have consistently exempted from the spirit duty imposed by them spirits contained or used in any mixture, compound, or preparation which is recognised by the Commissioners of Customs and Excise as being used for medical purposes, yet the other Acts imposing the duty on spirits tax the very spirits to which the later Acts give exemption. Remitting 59s. 3d. and retaining the 14s. 9d. a proof gallon may be the official form of expressing the view that one may strain at a fiscal gnat while swallowing the fiscal camel. The situation, we venture to think, ought to appeal to the Chancellor's sense of justice, as we are sure it must to his sense of humour. He would have no difficulty in recognising the fundamental distinction between a preparation used as a medicine and an alcoholic beverage which fiscal policy makes subject to taxation as a luxury. Nor could there be any difficulty on the score of popular opinion. Few electors, however eccentric, would approve of what is in reality a tax on the sick and infirm. One other and kindred grievance of chemists deserves to be noticed. We refer to the position of perfumes. For the manufacture of perfumes other than those of the crudest kind spirits are necessary. It must be



frankly admitted that the case for relief here presents difficulties which do not arise in the case of the spirituous medicinal preparations. In the first place perfumes must be looked upon as in the main luxuries, and as such a fit subject for taxation, though their medicinal value in sick rooms is not wholly negligible. And in the next place, it would probably be found in practice to be impossible to prevent the transformation of duty-free spirituous perfumes into potable beverages, thus inflicting serious loss on the Revenue. This, however, only strengthens the case for a very substantial reduction of the general duty on spirits. Such a step, if taken, might be expected to bring increased employment to the trade of perfume making and its allied trades, and at the same time to effect the social object of repressing the inducement to drink methylated spirits, of which so much has recently appeared in the public Press. It is probable even that the revenue from spirits would be more rather than less productive if such a reduction were made.

### The Rise in Sugar

THE sensational advance in the price of sugar last week put every other Mincing Lane market in the shade, and in the course of barely three weeks the raw product advanced approximately £12 per ton, an increase which took the market, as well as the general public, completely by surprise. However, the rise has been of short duration owing to heavy profit taking on the part of speculators, and values at the moment are decidedly easier, with a very steady undertone. Prior to the advance the market had shown itself to be far from strong, and prices generally were unsteady, as most of the large buyers were holding off pending the first results of the Cuban crop. The position is somewhat obscure, and amongst the many reasons put forward in support of the rise is the somewhat early report that a shortage of 393,000 tons is expected on the original estimate of the Cuban crop and that a strong speculative syndicate has been formed in the United States with a view to retrieve the heavy losses of recent previous years. That the Cuban crop is the deciding factor in the present situation is without question. At the end of last year the stocks in Cuba were practically exhausted, whereas at the end of 1921 there was a surplus of about 900,000 tons carried forward. We learn also that the European crop, which comes principally from Czecho-Slovakia, Germany, Belgium and Holland, has been a failure. This we are unable to believe, as the reports current at the end of last year were in general agreement that the European crop would be a favourable one, and no official statistics have yet been published to prove otherwise. France and Germany, two countries from which we drew large supplies in pre-war days, may safely be placed outside the list of exporting countries this year; this is not as a result of the present Ruhr trouble, but entirely due to the fact that the carry-over from last year was a very small one, and that practically all their sugar is required for feeding their own population. On the other hand, the expected record yield of this year's Cuban crop is estimated at over 4,500,000 tons, and this undoubtedly points to the fact that the statistical position is very sound. At this stage it is interesting to give the following estimates of the world's total supplies and consumption:—

—	Balance brought over	Estimated production	Estimated consumption
	Tons	Tons	Tons
Pre-war ..	750,000	17,500,000	17,500,000
1921 ..	1,216,000	16,682,000	16,198,000
1922 ..	1,700,000	17,490,000	18,360,000
1923 ..	830,000	16,511,500	—

Against the very considerable output of 16,511,500 tons, which figure is calculated on quite a conservative basis, the increased consumptive demand will leave very little margin of surplus stocks to be carried over into next year. Judging from recent happenings one is forced to the conclusion that in view of this latest display of buoyancy in New York, consumers will have to face the fact that the Cuban crop, which constitutes such a large portion of the world's supplies, is this season apparently to be the object of powerful speculative manipulation. The success which has attended this first effort—without either facts or figures to lend support—is sufficiently important to suggest that an extension of this "hold up" will again be attempted in the near future. The sugar market is and always has been a very sensitive one, and the exciting happenings after every "sugar call" on Mincing Lane soon vibrated at the leading provincial centres and on the Clyde sugar market, which is also a very important centre. Of the enormous amount of business done last week in London alone one can safely estimate that not more than 5 per cent. was from consumers. This goes to show the amount of speculation or "paper" business that has recently transpired, and has resulted in such violent fluctuations. If the Cuban sugar is to be artificially controlled by more or less affiliated syndicate operations of Cuban-Americans, prices will soon soar very much higher, as the combine would have practically no competition from the other producing countries. On the other hand, it is not in the interests of either the American or English consumers to pay the present high prices, as one must not lose sight of the fact that the average pre-war values were very low compared with the current rates, even after taking into consideration the fact that practically 3d. per lb. is absorbed by duty, against about 4d. per lb. in 1913. Further, it is admitted that the present prices show producers very handsome profits, which, naturally, they are most anxious to maintain. To sum up the general situation, it is far too early in the year to venture on a definite opinion either one way or the other. At the present moment prices look like further advancing, but as these advances generally reach the actual consumers in very quick time, a rapid falling off in the general consumption will soon manifest itself in all countries. This alone would speedily nullify any crop shortages in Cuba or elsewhere, and this is the only weapon which the general public can use when general commodities such as sugar are deliberately forced up for some ulterior motive, and without any logical reason. We consider that buyers will be well-advised to cover part of their requirements at the present parity, and await further information regarding the new crops before purchasing in quantity. Unexpected and violent fluctuations may be anticipated during the next few months.

### Pharmacy in Soviet Russia

THE nationalisation of every form of enterprise having proved a complete failure under the Soviet régime, a failure candidly acknowledged by the President of the Council of Commissaries of the People, private trading by individuals or corporations is now being permitted—it would be a misconception to say reintroduced—on a limited and severely circumscribed scale. Pharmacy is now included among the various branches of business which it has been decided conditionally to open to private exploitation, the Soviet authorities, however, retaining the actual ownership of all pharmacies and participating in the financial result of this departure from the tenets of communism. The Soviet department of health has published the conditions under which all Russian pharmacies, which after the revolution were confiscated and nation-



alised, are to be leased, the businesses, now styled "state pharmacies," remaining national property. The successful applicant for the lease of a "State pharmacy" has to sign a contract for a period of three years, and must open the business within one month of his appointment as lessee. He is required to keep in stock two months' supplies of a certain number of drugs and preparations, according to a special list, and must pay out of his own pocket for any improvements he may decide to carry out, as well as for any new fittings or apparatus he may deem it necessary to acquire in the interests of his business. In the case of any extensive alterations to the premises, permission must first be obtained from the department of health, the actual owner in this case, to carry out the proposed innovations. At the end of the three years the lessee may again tender for the lease of the business, in which case he will enjoy preferential treatment in competition with another applicant offering the same rental for the acquisition of the lease. The leaseholder is permitted during his three years' tenancy to assign or sub-let the business to another pharmacist, or to take a partner, whereby all the persons concerned will be held jointly responsible. His obligations do not end here, for in taking over the lease of a "State pharmacy" he binds himself to comply with a long list of possible contingencies. In the first place, when insurance against fire is reintroduced in Russia, the leaseholder will have to insure the business at his own expense on behalf of the State. Further, in his contract he agrees unreservedly to conform to all laws or regulations which may in future be introduced affecting the hours of work of employees, insurance against sickness, etc., salaries, dismissal, provision with food and other necessities of life, and also to comply with any new measures dealing with the conduct of his business and health matters. The State reserves itself the right to supervise the working of each business, and is empowered to cancel the lease should the leaseholder transgress against any of these stipulations, particularly should he neglect to lay in the prescribed amount of stock, or if he is two months in arrears with the payment of the rent. The State is not obliged to supply pharmacies with the necessary remedies, and in view of the very few drugs and medicinal products which are available in Russia, coupled with the practical impossibility of purchasing chemicals and other goods abroad owing to the appalling depreciation of the Russian currency, it is quite inconceivable how Russian pharmacists will manage to conduct their businesses on anything even approaching professional lines. That there may be no lapse from the rigid prohibition officially enforced by the Soviet, the pharmacist is forbidden to prepare his own galenicals containing alcohol, and must obtain his supplies of all alcoholic preparations from one of the official pharmaceutical laboratories. However, this formidable array of obligations does not exhaust the enumeration of the engagements to which the leaseholder of a "State pharmacy" must subscribe in the Russian Socialist Federal Soviet Republic. Mention was made above that the Soviet participates financially in cases where "private" trading—*vide* the foregoing example of denationalisation—is permitted. Judged even by the pre-war standard of prosperity, pharmacy in Russia, in the opinion of the Soviet, must be an extremely lucrative profession, for the leaseholder of a "State pharmacy" is required to pay to the Government a rental amounting to 10 per cent. of the turnover of the business, the minimum amount being fixed at 5,500 gold roubles, or the equivalent of £595. Payment has to be made monthly, the amount to be contributed in paper roubles being calculated at the rate of exchange between gold and paper as established by

the State bank, and to make assurance doubly sure, on signing the lease the leaseholder is required to pay in advance a sum representing three months' rental. Perhaps for financial reasons one important feature of pre-war pharmacy in Russia has not been revived—there is, so far, no mention of the reintroduction of an official drug tariff. Presumably the existing drastic laws for the suppression of illicit trading are deemed a sufficient safeguard against any overcharging by the pharmacist. The chaotic changes in the whole structure of the profession brought about by the revolution, described in the *C. & D.*, November 27, 1920, index folio 1626, have created problems to which Western standards are inapplicable, and it remains to be seen whether the reintroduction of the personal element will prove the regeneration of Russian pharmacy.

### The Progress of Insulin

INSULIN, the anti-diabetic principle prepared from the pancreas of the ox, pig or sheep, discovered in the laboratories of the Toronto University, marks the latest addition to our materia medica, since we are now informed that supplies of this new therapeutic agent will shortly be available for routine use in ordinary general medical practice. In a communication issued by the Medical Research Council it is stated that rapid and satisfactory progress has been made as a result of the research work undertaken in this country. Insulin is now being used in treatment for the relief of patients selected for the purpose at each of the following hospitals: In London, at St. Bartholomew's, Guy's, St. Thomas's, The London, and University College; in Sheffield, at the University Departments of Pharmacology and Physiology, and the Royal Infirmary; in Edinburgh, at the Royal Infirmary. At the same time every effort has been made to accelerate the production of insulin upon a manufacturing scale, and the Medical Research Council has entered into agreements with certain firms in the several parts of the country securing in the public interest a control of the safety and potency of the product and its sale at a fair price. In this connection it has been necessary to consider the distribution of the available raw material and the special technical difficulties attending its collection and proper use. No royalties are payable to the Council under any of these agreements. Thanks to the investigations carried out in the National Institute for Medical Research and to the experience, skill, and enthusiasm shown by the manufacturing firms in their co-operation with the Council, the successful manufacture of insulin is now assured, and supplies are promised to be available in a few weeks' time, after the conclusion of certain control tests. Since the advent of salvarsan no product has aroused such general interest as insulin, and it is devoutly to be hoped that its use will fulfil the hopes that have been formed. This interest has doubtless been considerably intensified by the mystery with which the actual nature and mode of preparation of the remedy has been surrounded by its originators and supporters, who, in their capacity of scientific investigators and physicians, took the unusual step of applying for patents to protect their discovery from "uncontrolled commercial exploitation." However, is it not permissible to ask what would have been the attitude adopted by certain extremely censorious professional bodies in this country, in the United States and elsewhere had a manufacturer endeavoured to introduce a product by analogous methods, and would he, in the circumstances, have received the same amount of encouragement from our leading institutions? There is, apparently, a distinction to be drawn between the quite ethical patenting of a discovery made by scientists in a public institution and the marketing of a product elaborated in the research laboratory of a private individual or a firm of manufacturing chemists. How often are the legitimate methods of propaganda adopted by the latter anathematised as instances of "exploitation"—except, perhaps, when the discovery is the product of some pontifical Teutonic brain.



## BRITISH INDUSTRIES FAIR

London, February 19—March 2

THE London section of the British Industries Fair, with its four miles of stand frontage and 8,000 electric lamps, premises to out rival its predecessors in interest. This year it has risen to the dignity of having a Press view, the only drawback to which was the remoteness of the catalogues and of many of the exhibitors. During the morning of the opening day the Fair was honoured by a visit from their Majesties the King and Queen, whose progress through various sections occupied about two hours. At that time the Fair was hardly under weigh so far as attendance was concerned, the best business, apparently, being done in the chemical and chemical-plant section, which presented an animated appearance.

At the official luncheon presided over by Sir Philip Lloyd-Greame (President of the Board of Trade, ambassadors and ministers representing the principal countries of the world were present. On the right of the chairman was the Spanish Ambassador (Senor don Alfonso Merry del Val), and on his left the Belgian Ambassador (Baron Moncheur). Others supporting him included Sir Joseph Cook (High Commissioner for Australia), Sir William Johnson-Hicks (Parliamentary Secretary of the Department of Overseas Trade), Baron Gonsuke Hayashi, Sir John Baird, Baron Palmstierna, Mr. Neville Chamberlain (Postmaster-General), Sir James Allen, Dr. Vojtech Mastny, Lord Ashfield, M. Constantin Skirmunt, Alderman David Davis (Mayor of Birmingham), Sir Edward Lucas, and Count Laszlo Szapary. The large attendance included the chairman of the Association of British Chemical Manufacturers, the British Optical Instrument Makers' Association, and the British Brush Makers' Association. The manager of the Association of British Chemical Manufacturers (Mr. W. J. Uglow Woolcock) was also present, and he, so far as we could discover, was the only direct representative of pharmacy. In proposing the toast of "The British Industries Fair," the chairman said that the Fair was nine years old, and a very healthy infant. It was a war baby, and if everything that had been born during the war had survived it as well the world would have been a more prosperous place to-day. After referring to the Royal visit, he went on to say that the Fair was a business proposition run by trade for trade. Its idea was the promotion of trade, internal and external, and anyone visiting the present Exhibition would be struck by the wide range and very high quality of the products shown. In the manufacture of these British goods three things were evident: Good material, scientific production and skilled workmanship. Furthermore, these products were of a standard that could be adapted to every market of the world. Quality was always worth paying for, and he urged upon overseas buyers who were present there to "be in time, not miss the 'bus, but place their orders now." He found that visitors were there in far greater numbers than last year, and that more business had already been done than before among a larger assortment of buyers. This was as it should be. International trade was a natural process, and was the strongest of national cements. The aim and object of the Fair was the tightening up of the bonds of international trade, and in this connection he referred to the commercial treaty recently concluded with Spain and the exceptional interest shown in the development of the industries of Brazil. "Trade," said the President, "breeds trade, and in my opinion this is the most valuable form of international conference that has been held since the Peace." Mr. P. Barringer (on behalf of the London section) and Mr. H. O. Worrall (on behalf of Birmingham) replied. Sir William Johnson-Hicks proposed "Our Guests from Overseas," and this was replied to in a vigorous and telling speech by the Spanish Ambassador, and also by Sir Joseph Cook.

In the following paragraphs we summarise our impressions of exhibits associated with the drug-trade.

### Drugs, Chemicals and Proprietarys

ALBRIGHT & WILSON, LTD., have an exhibit appealing strongly on the scientific and the technical sides alike. A brave display is made by various acids and salts in vitreous bowls, the purport of which is to impress on the visitor the fact that such ware is used in the actual processes of manufacture. Chemically pure ammonium phosphate, that competes with the commercial phosphate in price, is well in the foreground, and another product stressed is carbon tetrachloride of 99.97 per cent. purity. A new amorphous phosphorus, scarlet in colour, is guaranteed to be of 100 per cent. strength, and there is an interesting series of glycerophosphates in open bowls, evidencing their independence of atmospheric conditions.

FREDERICK ALLEN & SONS (POPLAR), LTD., have a good display of the chemicals in which they specialise, such as mineral acids for analysis, cobalts and lead chromes. Two excellent specimens of burnt alum and fused calcium chloride occupy positions in the forefront of the exhibit.

STAFFORD, ALLEN & SONS, LTD., as growers of herbs, distillers of oils and manufacturing chemists, have a large range of products from which they can choose to illustrate their handiwork, and a visit to their stand shows how well this has been done. A druggists' carboy of iso-eugenol forms the centrepiece of a striking display of essential oils distilled by the company, which include English lavender and peppermint oils from plants grown on the company's own farms, clove oil, and also some of the lesser-known types, such as buchu, black pepper, cascarrilla, etc. Expressed oils are also shown, and these include English oil of almonds, a product which in colour and general qualities reaches a high standard of excellence. English-grown digitalis, lavender flowers, henbane, belladonna, and many other plants are exhibited as specimens and from the herb farm and extracts made from English herbs are conspicuous in an attractive and interesting exhibit.

A. BOAKE, ROBERTS & CO., LTD., have a conspicuous corner stand, displaying many fine chemicals—e.g., ethyl oxalate and phenylethyl benzoate—together with heavier products, such as glacial acetic acid (which on this occasion was tightly frozen), and liquid sulphur dioxide. On tables in the foreground are groups of sulphites and so forth, conveniently arranged for inspection.

BOOTS, LTD., have lately introduced Stabilarisan, an arsenobenzol compound with glucose, and it forms a leading feature of their exhibit. This product, it is claimed, is much more stable than the original preparation, and consequently it is less toxic. For this reason it can be packed in ampoules ready for immediate use, and this, no doubt, is a point which will interest the physician, who understands the difficulties and dangers attending the making ready of salvarsan. Chloroform is now an important article of manufacture with Messrs. Boots, and the excellent examples of many synthetic perfumery and intermediate chemicals testify to the variety of the company's undertakings. Chloral, it is of interest to note, is made in large quantity by Messrs. Boots, who claim to be the only English manufacturers of this article. Compressed tablets and scale preparations also figure prominently in a varied display, and regular *C. & D.* readers will not need to be reminded of the high degree of finish attained in both types of product by Messrs. Boots. A large specimen jar filled with quinophan served as a reminder that the British fine chemicals no longer play second fiddle to foreign proprietary goods.

BOWDLER & BICKERDIKE have a neat display of the chemicals and chemical products in which they



specialise—lysol, carbolic acid, cresylic acid, sheep dip, and so forth, all of definitely specified strengths.

**BRITEX CHEMICAL PRODUCTS, LTD.**, have marketed a disinfectant called Britol, which is available in four forms—liquid, solid, air purifier and moth tablets. Britol has a not unpleasant odour, it is non-poisonous, and does not burn, stain or corrode.

**THE BRITISH DRUG HOUSES, LTD.**, have one of the most interesting exhibits in the chemical section, the immense variety of the preparations giving the impression that, so far as chemicals are concerned, one could not send them an order which would not be filled from stock—in fact, to give a detailed list of the products would be to publish a greater part of the company's price list. The articles are classified too, so that the visitor may inspect whichever group he is interested in; for example, pharmaceutical chemicals, P.P.P. chemicals, analytical and research chemicals, microscopic stains, and a cabinet showing the newest indicators for determining hydrogen ion concentration. Scale preparations are shown in an effective manner by means of illumination. The company's specialities, such as Contramine, Cresineol, Duogen, Intramine and Uro-hexoids, also occupy prominent positions, and adequate literature concerning their nature and uses is available. Mention must also be made of the medicinal glucose which the B.D.H. now manufacture in half-ton batches. It is perfectly white, odourless, neutral, readily soluble in water, and has an optical rotatory power of 52°. It contains a small percentage of combined water, as distinct from the anhydrous variety which is prepared for use in bacteriological laboratories, and which is also an excipient for hypodermic tablets.

**BRITISH DYE STUFFS CORPORATION, LTD.**, have a large island stand filled with interesting chemical and other specimens. A series of microscopic stains in tubes of 10 or 25 discs (each containing 1-10 gram of the substance) is being shown for the first time at these fairs, as is a set of rubber accelerators. A delightful booklet, "Some Notes on Microscopic Stains," issued by the Corporation, gives details of various stains used and of the function of each. The booklet is furnished with a bibliography, and constitutes within its limits a textbook on the subject. An important point mentioned in the introduction is that sufficient stock of each stain is held to ensure perfect uniformity over a period of many years, so that the results of workers in different countries may be strictly comparable. Dyes, medicinal chemicals and photographic chemicals of the company's manufacture are also on view; one of the newest of these is euflavine, a neutral acriflavine. In this connection the research staff of the company is constantly on the track of new chemicals, so much so that suggestions as to unsatisfied requirements are welcomed from bacteriologists and other scientific workers. The Corporation's list of chemicals and chemical literature is a lengthy one, and branches or agencies are in existence in the principal countries of the world.

**BROTHERTON & CO., LTD.**, concentrate mainly on chemicals of technical application, such as ammonium carbonate, sodium hydrosulphite, Formosul, and Laundros. The function of such a product as Formosul in bleaching during colour printing on fabrics formed the subject of an interesting lecturette on the occasion of our representative's visit; and attention was also called to the metachrome series of dyes, which yield some very attractive colours.

Special prominence is given by **BURROUGHS WELLCOME & Co.** to bismuth salts and salicylates, but closer investigation of the stand shows that the firm's specialities, such as Moogrol, Kharsivan, Neokharsivan, and a host of tabloid and solid products, are by no means in the background. Details of the preparation of tabloid gland products and of Iodicin, an organic combination admirably adapted for the intensive administration of iodine, are also shown in striking fashion. Displays of serums, vaccines and tuberculins, of microscopic stains, and medicine cases, are also made.

**BURT, BOULTON & HAYWOOD, LTD.**, have arranged an ingenious set of screens, with intermittent lighting

effects, throwing into prominence the names of their various products, specimens of which greet the eye of the visitor on tables below the screens. These products, as is well known, include naphthalene, creosote, benzole and ammonia.

**W. J. BUSH & Co., LTD.**, have confined their exhibit mainly to synthetic chemicals and essential oils. Among the former the various stages in the production of vanillin from cloves are demonstrated, while the latter includes a range of terpeneless oils, artificial violet, hawthorne and heliotrope oils, and such natural products as geraniol and citronellol.

**ARTHUR H. COX & Co., LTD.**, have a display that appeals strongly to the eye, deftly composed as it is of blended colours and artistically spaced lines. Prominence is given to the "No. 2 Toilet Series," a range of put-up goods, including practically every kind of toilet lotion, cream, and so forth. The display card (given with assorted orders) is one of the neatest things in this way that we have ever seen, and ought to prove an efficient "silent salesman." Bulk perfumes, bath crystals, wrapped soaps (with stress on Sulphur Cream soap), and the well-known tablet card of the company, are also in evidence. Messrs. Cox are now pushing Dr. Woods' Health Saline, a well-packed article, with reference to the approaching spring demand.

**THE GRAESSER-MONSANTO CHEMICAL WORKS, LTD.**, are justifiably proud of their carbolic "ice crystals," a jar of which forms an imposing centre-piece of their stand, while other products for which the company has a reputation, such as saccharin and vanillin, also occupy prominent positions.

The display of **HALLER LABORATORIES, LTD.**, is a realistic one, "featuring" rats (luckily, stuffed ones) on the warpath, some of them apparently meeting a righteous doom with Danysz virus, Haller's extract of squill, or another of the products in which the company specialises.

**HICKSON & PARTNERS, LTD.**, illustrate the various stages in the manufacture of coal-tar intermediates, and the results which can be obtained with some of their dyes.

**HOPKIN & WILLIAMS, LTD.**, have a display of great interest, alike from the scientific and the commercial point of view. Prominence is given to numerous monazite derivatives and rare earths from various parts of the Empire; the attention of the visitor is drawn to thorium salts, mesothorium (at £5 a milligram), titanium oxide, neo- and praseodymium nitrates, and a striking group of uranium salts and ores. The guaranteed reagents of the company, well known to chemists engaged in analytical practice, are also in evidence, and the representative in charge obviously holds a good "brief."

**JOHNSON & SONS (MANUFACTURING CHEMISTS), LTD.**, called our attention to Septon, a one-solution sepia toner they have recently introduced. Results stated to be superior to the sulphide method are obtainable with Septon, particularly in the case of gaslight papers, and the print thus toned is declared to be more lasting than with the two-solution process. Septon is packed in one-ounce and half-pint bottles, retailing at 1s. 4d. and 6s. Ten drops are added to five ounces of water, and the prints are immersed for fifteen minutes. After being washed for half an hour, the process is complete. The other exhibits were chiefly coal-tar photographic chemicals and silver nitrate. In connection with the latter, the company have a display of lunar caustic guaranteed to contain 90 per cent. of silver nitrate (see *C. & D.*, II., 1922, p. 298).

**B. LAPORTE, LTD.**, are showing a wide range of chemicals of their manufacture, notably hydrogen peroxide and barium peroxide, the latter of which, as most people in the trade know, is the principal raw material for the production of the former. Owing to the shortage of barium peroxide in the early stages of the war, Messrs. Laporte began manufacturing it, and have developed their process at Luton to such an extent that they believe they have reached perfection. At any rate, they are the only English manufacturers of this



product. The company have also on view blanc fixe (barium sulphate), perborate of soda, and sodium sulphide; the sulphide is, we understand, made by a process used exclusively by Messrs. Laporte, yielding a salt of exceptional purity. The Luton headquarters is supplemented by a branch works at Bradford.

MAY & BAKER, LTD., are showing a large number of their products, but concentrating chiefly on mercurials, bismuth salts, strychnine salts, iodine preparations, antisyphilitics, and camphor tablets. The last named, already transparent, are wrapped in various coloured transparent papers, and can be stocked indefinitely without losing either weight or transparency.

THOMAS MORSON & SON, LTD., have a display of unusual interest. Our representative found one of Messrs. Morson's directors in charge, and was able, under his guidance, to examine some of the products representing the latest advances in the application of pure science to medical and technical problems. The first of these is Morson's pure Osmo-Kaolin, a powder obtained from crude kaolin by a patented electro-osmotic process. The particles are no larger than the more common bacteria, and the new product is proving of great therapeutic value, both internally and externally. It has the further remarkable property of being able to absorb a large proportion of water while still remaining dry. An even newer powder is known as Osmo-Sil, and it not only takes up its own weight of water and remains a powder, but is found to have a selective action on a mixture of dyes, absorbing the basic while leaving the acid ones. The commercial possibilities of such a powder—which, although a silica product, somewhat resembles light magnesium carbonate in appearance—are fairly obvious. Other little-known exhibits among this remarkable collection are Dr. Hodgkinson's reagent for the removal of impurities from oils and spirits, Sifluor-M and Sifluor-A, the last-named of which, applied to wood, acts as an effectual fossilising and preserving agent. Messrs. Morson's scale preparations and other fine chemicals, such as sodium antimony tartrate, are also on view in handsome specimen glasses, some of which, made at the Whitefriars works for the company when they were showing at the St. Louis Exhibition of 1904, are very probably unique.

B. L. & N. PHILLIPS, LTD., are exhibiting various kinds of vermin-killers, and showed us testimonials to the efficacy of the rat-killer from all parts of the globe. A particular point is made of freshness of their virus, which is always sent by return of post, and is guaranteed to be never more than twelve hours old. Messrs. Phillips propose to appoint a chemist as sole agent in any town or district not over 20,000 inhabitants, and to allow a profit of 33½ per cent. on turnover.

J. L. ROSE gives fresh evidence of the excellence of the chemicals in which he specialises—gallic acid, pyrogallac acid, and gallamide, for which useful trinity, we are glad to learn, the demand is well sustained.

SCOTTISH DYES, LTD., specialise in fast colours—Caledon, vat colours, for cotton and Solway, alizarine colours, for wool, and of these fast series have one of the largest ranges in this country. Among the new colours being shown this year are Caledon yellow 3G, Solway cyanine 3FL, Solway blue-black 3B, which gives greener shades than Solway blue-black, and Caledon black in two powder brand, Bx and 2Bx.

THE SOUTHDOWN CHEMICAL CO., LTD., for whom Chas. Page & Co., Ltd., are the sole selling agents, are showing sodium sulphite, blanc fixe, sodium pyrophosphate and hydrogen peroxide. To call attention to the last-named, a number of unbleached articles placed on one side of a showcase are shown passing, in an ingenious manner, through a basin of peroxide, and coming out bleached on the other side.

TYPKE & KING, LTD., have a handsome stand with an almost self-explanatory show of the pigments and other chemicals in which they specialise, such as sulphur, hypophosphites, and enamel colours. Various grades of indiarubber substitute suggest the various and increasing

uses to which it is being put, and incidentally form an object-lesson in applied chemistry.

THOMAS TYRER & CO., LTD.—The chromatic effects of the various salts render the stand an attractive one, and a close examination of the chemicals suggests the high standard of quality that is so desirable. Bismuth salts (and a show piece of metallic crystals) are prominent along with various mercurials and scale preparations. Fine crystals of camphor monobromate are also worthy of comment. A profusion of cobalt and nickel salts helps to complete what is altogether a pleasing display of British-made chemicals.

THE UNITED ALKALI CO., LTD., occupy a well-placed island stand with a display quite worthy of the centenary of the alkali industry, which, we notice, falls this year. Their water purifier, Chloros, for example, is perched over a well containing water and a bucket, thus enhancing the appeal of the article itself. Copper sulphate crystals shaped basket-wise, and a "pedigree" table (with specimens) of coal-tar products, are among other striking features of a stand that invites the visitor to linger; and the arrangement is completed by a centre-piece built with packed products, such as tins of caustic soda.

UNITED LABORATORIES & CHEMICAL CO., LTD., who, by the way, added a gold medal to their trophies at the recent Fisheries Exhibition, have some novelties to show the visitor in the shape of Unilab Chilite and Raditive Cream, the names of which are fairly self-explanatory. Sprazone and its outfit sets figure prominently, as usual, in a well-planned and attractive display.

The stand of WILLIAMS BROTHERS & CO. sets forth in attractive fashion the possibilities involved in the judicious use of colour as an adjunct to every kind of product. In conversation with the representatives in charge, the C. & D. man learned that Messrs. Williams Brothers have trebled their works since 1913, and that their output is four times what it was in that year, with a capacity for an expansion greater still. A new butter-colouring is being shown at the stand, and in this connection Messrs. Williams Brothers point out that they are the only manufacturers who guarantee the harmlessness of their colours.

Among other manufacturers showing in this section are:—ACME CHEMICAL CO., LTD. (waterglass, weed-killer, etc.); THE AJAX ANILINE DYE MANUFACTURING CO., LTD.; THE BRITISH ALIZARINE CO., LTD.; FAIRY DYES, LTD.; GAS LIGHT & COKE CO.; GRAYS' DYES AND COLOURS, LTD.; INTERMEDIATES AND EXPLOSIVES, LTD.; LANDORE ZINC WORKS, LTD.; T. LYE & SONS; THE MARLEY HILL CHEMICAL CO., LTD.; THE POWELL DUFFRYN STEAM COAL CO., LTD.; SEATON, THEW & CO. (shellac); SPENCER, CHAPMAN & MESSEL, LTD.; THERAPEUTIC FOODS CO.; UNITED KINGDOM CHEMICAL CO., LTD.

### Toilet Preparations and Requisites

BOWERS & SIMONETT, LTD.—Everything in the foreground of this stall is made from ivory, and fine workmanship is evident in the hair brushes, shaving brushes, tooth combs, mirrors and numerous other toilet articles. The company also make hand mirrors in ebony, of which there is an attractive series.

F. S. CLEAVER & SONS, LTD., give prominence to their otto soaps—rose, jasmine, clover, violet, lavender and almond. Sterilised talcum powder is another important line. This is sold in tins with sprinkler tops, but when the tin is empty, a refill can be purchased, at, of course, a slightly lower price. A series of toilet requisites in one perfume and colour is another feature of the exhibit.

CUSSENS, SONS & CO., LTD., specialist in soap novelties which appear to revolutionise any preconceived ideas on soap shapes. Well-known nursery characters, including Robinson Crusoe and his dog, in the form of soap will no doubt help to make the ordeal of a wash more pleasant for the juvenile. Ladies' handkerchief boxes, complete with soap, perfume and handkerchiefs, toilet soaps, shaving soaps, all of which are British made, constitute an attractive display.



**DUBARRY ET CIE.**—Her Majesty the Queen had some complimentary remarks to make when she visited this stand, which, in lay-out, reflected on a larger scale the elegance that each of the firm's products exhibit. A scenic artist had been called upon to symbolise "Golden Morn" toilet luxuries, and this was done in attractive manner. The importance of the packing in toilet and perfumery articles is well recognised by Messrs. Dubarry, who, at the same time, realise that satisfaction is more than wrapper deep. A useful novelty is introduced in the form of caskets in various sizes containing all the aids to beauty that a lady can reasonably expect while travelling. The "Shalimar" manicure set is another attractive line, and mention should also be made of the powder bowls, which, to the ordinary male person, appear to be an ornamental piece of china, so skilfully is the practical side disguised.

**JOHN FREEMAN** is showing a representative range of, among others, hair, shaving and tooth brushes of his own manufacture. Rubber cushion wire brushes, which, it is explained, are really a form of comb, are also displayed.

**GILLETTE SAFETY RAZOR, LTD.**—A full range of Gillette shavers, ranging in price from 21s. to £16 16s., can be seen at the stand. Popular types appear to be the "Richwood," "Tuckaway," "Bostonian," and "Chippendale," and the gold varieties of these descriptions have a particularly fine appearance. Sets containing brush, soap and blades, complete with razor, are also obtainable, and should be useful for travelling.

**J. S. HARRISON & SONS, LTD.**—Among the many kinds of brushes on view are extensive ranges of hair and shaving brushes. A special bath brush, described as the "Caibo" brush, is shown, in which the bristles are replaced by rubber.

**SAMBOY HAIR TONIC**, which is described as a "wonderful grower," is claimed to have a beneficial effect on the scalp as well as the hair. It is offered to the retail trade on distinctly advantageous terms.

**C. A. STOKES & Co., LTD.**—All kinds of toilet preparations are displayed at this stand. "Own name" series are specially catered for at competitive rates. This applies to tooth pastes, brillianines, tooth powders, and similar lines, which are always in steady demand.

The exhibit of **WILLIAM TOOGOOD, LTD.**, is a large and well-assorted one, appealing to the small buyer as well as to the purchaser of hundred-gross lots. Massed displays of such standard lines as Devon Violets and English Eau de Cologne are quite effective, and it is clear that a good deal of thought has been given to the arrangement of the tables and showcases. Toilet preparations of all descriptions for the hair, the complexion, and so forth, abound in a great variety of label and packing.

**THE WILKINSON SWORD Co., LTD.**, have remodelled their well-known safety razor to take hollow-ground blades, and it is now packed in a walnut case instead of a leather one. Other lines of interest are surgical scissors and shaving brushes.

**WILLIAMSON BROTHERS**, whose puffs we commented on recently (*C. & D.*, February 3, p. 156), have a large assortment of their wares on view, the effect produced being particularly striking. An example of how the popular fancy is catered for is to be seen in the puffs with Egyptian replicas as handles, this design being, of course, suggested by the recent discoveries at Luxor.

Among other manufacturers showing in this section are:—**THE ABERDEEN COMBWORKS Co., LTD.**; **AUTOSTROP SAFETY RAZOR Co., LTD.**; **THE BRITON BRUSH Co., LTD.**; **JAMES DEWSNAP, LTD.** (dressing cases); **THE GENERAL CELLULOID Co., LTD.** (puff-boxes); **JOHN KNIGHT, LTD.**; **MYERS, LUMOS & Co.** (galatix combs); **M. NEUHAER & LEVI, LTD.** (brushes); **NEW FORM PERFUMERY Co.**; **RIGBY, BATTCOCK, LTD.**; **ROWAN & Co.**; **TURNER, SON & Co.**

#### Plant, Apparatus and Glassware

**ACKROYD & BEST, LTD.**, have a varied display of chemical, illumination and other glassware, of which they are actual makers. We learn from the representa-

tive in charge that Messrs. Ackroyd & Best are extending their scope in certain directions, and it is obvious that with works covering four and a half acres they are in a position to supply almost any kind of demand.

**ALUMINIUM PLANT & VESSEL Co., LTD.**, exhibit specimens of their aluminium plant for use in the various industries. Aluminium has obviously advantages over iron in vessels used in the manufacture of salicylates and other substances, which react readily in presence of the minutest traces of iron. For this reason manufacturing chemists are among the important users of this type of plant.

**BENNETT, SONS & SHEARS, LTD.**, who specialise in apparatus and plant for pharmaceutical and chemical work, exhibit mulsers, autoclaves, etc., together with photographs of these and other types, as specimens of their work.

**THE BERKEFELD FILTER Co.** were showing, among other filtering apparatus, filtering cylinders and vacuum flasks with pumps, for laboratory purposes. A new instrument is for supplying filtered water at any temperature, a thermometer placed in the flow ensuring the correct degree of heat.

**T. C. CLARK & Co.**—Acid-resisting plant is shown at this stand, the enamelled vessels being guaranteed free from lead. Messrs. Clark, whose firm dates from 1795, claim to be the original patentees of this type of ware, which is largely used in the chemical industry, it being resistant to such organic acids as lactic, tartaric, etc., and even hydrochloric acid can be dealt with. Evaporating pans of various sizes are on view, and any size can be made. A photograph is on the wall of an evaporator with a capacity of 1,200 gall.

**W. J. FRASER & Co., LTD.**, have a well-selected show of plant for several purposes, including an autoclave which works up to 2,000 lb. pressure. A general-utility piece of apparatus is to be seen in the form of a still fitted with two sets of reflux condensers, a dephlegmating column, and a stirrer, the convenience of which combination is obvious.

**THE FULHAM POTTERY AND CHEAVIN FILTER Co.** inform us that they are now rebuilding their works and installing new kilns, so that they hope shortly to be able to deal expeditiously with large orders. They have, however, a comprehensive display of extract pots, hot-water bottles, bmg jars, filters and porcelain insulators for use in wireless.

**THE KESTNER EVAPORATOR AND ENGINEERING Co., LTD.**, can offer an evaporator for every type of duty. For the evaporation or concentration of ordinary liquors, the Kestner climbing film evaporator is described as the most scientific apparatus to be found in chemical works. It is used extensively in the concentration of sugar solutions, syrups, gelatine solutions, caustic soda, milk, malt extracts, glucose, etc. It is the only type of evaporator which can be adopted in multiple effect without vacuum, so as not in any way to deteriorate or injure the most delicate product. The small type evaporator (Kestner horizontal) is popular in chemical works where relatively small quantities of liquor have to be evaporated. Where evaporators cannot be used for removing water from all chemical products, and where a dry material is required, a rotary drier is adopted. The driers can be constructed to operate under vacuum. Degassing plant, which is another speciality of the company, adds considerably to the life of boiler plates and tubes, for it is now well known that the oxygen dissolved in the feed water is responsible for corrosion. An interesting application of colloidal chemistry to industrial needs is seen in the "Silica gel," which process has been taken over for Great Britain and the colonies. This is used with the plant recommended by the company for absorption from gaseous and liquid phases, and in catalysis. The "gel" being, of course, purely mechanical and quite inert, is extensively and successfully employed in these capacities.

**MANLOVE, ALLIOTT & Co., Ltd.**, exhibit examples of some of the machinery they manufacture. This includes centrifugal dryers, filter presses, vacuum dryers, etc.



PLAUSON'S MILL AND FILTER PRESS, LTD., have a specimen of the Plauson colloid machine on view. We learn that this machine differs from others by utilising a combination of mechanical with chemical forces, and that it is indicated for accelerating such processes as saponification, smashing starch grains, and the emulsification of "immiscible" oils or waxes with water. Correspondence from works and research chemists is invited.

ROBERTS' PATENT FILLING MACHINE CO. show a selection of their multi-form apparatus for handling—the apparatus is so nearly human that it may be said to handle—all kinds of liquids. Demonstrations were in progress when our representative called, and it was clear that visitors were learning something of interest.

SLACK & BROWNLOW are showing numerous varieties of filters, the filtering medium of which is kieselguhr cylinders. The water passes from the outside to the inside, leaving all suspended matter on the outer surface of the candle. When the water only passes through the cylinder slowly, it is a sign that the cylinder should be renewed—a contrast to the charcoal type. Table filters is another line of interest to chemists.

THERMOS, LTD., have a display worthy of their high reputation, comprising as it does flasks, jugs and complete outfits, such as "motor restaurants," the name of which clearly suggests the use. We learned from the representative in charge that a competitive line in flasks has lately been introduced, and this will, no doubt, find a ready reception.

Among other manufacturers showing in this section are:—BROWN & SON (stills); WILLIAM GOWLLAND (1916), LTD. (lenses and optical instruments); IMPERIAL OPTICAL CO.; THE NATIONAL GLASS INDUSTRY; W. NEILL & SON, LTD. (chemical plant); L. OERTHING, LTD. (balances); OPTICAL MANUFACTURERS, LTD.; ROSS, LTD. (cameras); SHORT & MASON, LTD. (scientific instruments); WILL-MOTTS, LTD. (optical goods).

### Miscellaneous

W. R. F. AVERY & CO.—The large variety of seals (embossed and plain) that here meet the eye is an excellent reminder of the attraction which this form of labelling exercises, and it is of interest to note that the drug-trade is probably the large user. Some of the labels for perfumes and toilet articles are particularly striking. The King, who paused at this stand on his itinerary, was pleased to learn that this branch of industry, which was formerly almost entirely German, is now firmly established in this country.

BETTERWAYS, LTD., have recently introduced several new models of their movable-letter signs, including some with 2-in. letters, others with letters which glitter, and, to be up to date, a Luxor model. The self-spacing principle is maintained throughout.

BIRSCO, LTD., manufacture all kinds of cellular rubber goods. Some of the rubber sponges on view compare favourably in texture with Turkey sponge. Bath straps of loofah and cellular rubber should be ready sellers. A £1,000 idea for a new use for rubber is exhibited in the form of a chair, in which rubber sponge replaces horse-hair and iron springs.

BLACKWOOD & CO., LTD., are showing a variety of inks and pastes, but particularly called our attention to their sealing wax, which, we understand, finds great favour with chemists, both wholesale and retail.

W. BUTCHER & SONS, LTD.—Alongside of the "Primus" engineering sets are a variety of "Kingsley" chemical sets, ranging from 1s. 9d. to 84s. Full directions are given with each set, and nothing dangerous is included. These sets, it appears, are particularly suitable for Christmas trade.

A. S. CARTWRIGHT, LTD., have an extensive exhibit, among which are included teats and several of their aluminium goods—e.g., caps for jars and bottles, and graduated measures.

COOPER, DENNISON & WALKEN, LTD.—Melanyl marking ink is prominent among a variegated display of stationers' articles. Sealing wax appears in almost every

conceivable shade, and the sealing sets offer to ladies an attractive method of finishing off their correspondence. The set includes spheres of sealing wax, each one of which is the correct "dose" for an envelope, a melting pan, wax tapers, and space for matches. For chemists who sell stationery these sets should prove a satisfactory sideline.

DEAN'S RAG BOOK CO., LTD., find a corner among a huge collection of books, dolls, etc., to exhibit their "Swimeesy Buoys," a type of floating wings which are popular if (or when) summer comes.

EBURITE PAPER CO., LTD., called our attention to a box for packing glass containers. It is composed of double jute-faced board with a corrugated lining, designed that, in event of the package falling, the box acts as a shock-absorber. Instead of buying rolls of corrugated paper, the company suggest that the chemist should buy the sizes he usually requires already cut by them, and so obviate waste. In connection with the use of crepe paper for window dressing and other purposes, it is interesting to note that Messrs. Eburite make it in seventy-two different shades.

Amid an array of batteries and electric lamps to be found at the stand of the EVER READY CO. (GREAT BRITAIN), LTD., appropriate mention may be made of high voltage sets for use in wireless work and dark-room electric lamps. Among the latter the *de luxe* model is particularly useful for the dark-room, as it is portable, and when a white light is required, the red glass holder can easily be unscrewed. Electric bell sets, medical coils and torches are other lines of interest in this comprehensive display.

GUY'S CALCULATING MACHINES, LTD.—The ease with which the Britannic calculating machine (to say nothing of the speed) does its work is a source of wonderment to the visitor, who will find Mr. Guy himself at the stand to explain the mechanism. Briefly, by a few turns of a handle the machine gives immediate results to long and complicated calculations; for example, 9 figures by 9 figures can be multiplied in 20 seconds. Every class of calculation can be performed on the Britannic, which weighs only 12 lb., and any junior member of the staff can perform the operations. It is claimed that the machine is British throughout, and is the only calculating machine made in this country.

J. G. INGRAM & SON, LTD., have a comprehensive display of their well-known goods, together with some neat pamphlets suitable for distribution. Emphasis is laid on the P.A.T.A. lines in hot-water bottles, enemas and other saleable goods.

SAMUEL JONES & CO., LTD., are showing a comprehensive selection of their gummed tapes and moistening machines. It is claimed (to summarise the information given us) that gummed tape is cheaper than string or wax, quicker to use, neater, pilfer-proof, and that parcels finished off with it lie closer in cases than others. A great variety of colour and printing is available.

PACKERS' SUPPLY CO., LTD., have a neat show of Agripta patent strapping and sealing devices, speed and security being two of the strong points of the system. Designed on recognised engineering principles, these enable the packer to finish off with a flat seal, presenting no ragged ends and allowing of the close packing of boxes. Any commercial hoop-iron can be used in conjunction with the system.

JAMES PASCALL, LTD.—This large stand is a glittering array of colour from the multitude of sweetmeats, cosques and other attractive lines. "Maltex" confections and "Ambrosia" milk chocolate, which are prominently displayed, are popular among pharmacists.

SORBO RUBBER SPONGE PRODUCTS, LTD., show abundant evidence of enterprise in their exhibit. Leaving aside various lines belonging to other trades, we may instance their Sorbo sponge socks, a neatly put-up line, having manifest advantages over a rigid slip of material in boots. Surgical sponge sheeting, truss goods and bath mats are among other products of distinct interest and value.



RAPHAEL TUCK & SONS, LTD.—The poster postman (familiar figure on the hoardings), who has been overwhelmed at the response to the Raphael Tuck postcard competition, catches the eye at the entrance to the stand. The 1922 Christmas cards of the King, Queen and other members of the Royal Family, by gracious consent of the royal personages, are being printed for this year for use by the public, and the reproductions are shown to their Majesties, who visited the stand. Various sizes are obtainable. The range of postcards, of course, very large, and some of the reproductions are excellent. Picture books beautifully illustrated and things make up the rest of a display which is, perhaps, unique in the exhibition.

WALSALL LITHOGRAPHIC COMPANY.—Some fine specimens of litho and cutter-crushed litho showcards are to be seen here, those intended for pharmaceutical display giving the appearance of quality which so readily appeals to the pharmacist and finds a place in his window shop. Letter headings and embossed seals are other important branches of work undertaken with excellent results, and a card with an embossed part of 2½ in. is pointed out as the supreme effort in this type of display. Among others whose stands are worth a visit are:—BRITISH CRÊPE PAPER MANUFACTURERS, LTD.; THE DOOPER COLLAPSIBLE BOX CO., LTD.; ERINOID, LTD.; ARBUTHNOT'S PLASTICINE, LTD.; G. H. HARRISON & SONS (colour printing); MCKAY ARTIFICIAL LIMB CO., LTD.; ECCANO, LTD.; SPICERS, LTD. (paper and containers); WOOLF (baby soothers); WRAY'S EVERCREASE.

## Dispensing Notes

Paper read before the Liverpool Chemists' Association on February 14, by Harold Wyatt, Ph.C.

THE materials for these notes have been taken from the prescription-register, and are therefore an exact record of the methods followed in handling the various difficulties as they crop up in one's daily work, or the ideas suggested to the dispenser by the peculiarities exhibited by the prescriptions themselves.

### MIXTURES

Guaiacal carbonatis	...	...	5iv.
Balsami tolutani	...	...	gr. LXXX.
Sp. vini rect.	...	...	℥ CLX.
Emuls. ol. morrhue	...	ad	3viiij.

Misce. Ft. mistura.

Dissolve the balsam in the alcohol with heat and pour into the bottle on to half the emulsion, with which the guaiacal carbonate has been mixed. Shake well and add the rest of the emulsion.

Chloral hydratis	...	...	gr. LXXX.
Paraffini liquidi	...	ad	3iv.

M. 3ss. at bedtime

Warm the chloral rubbed fine and placed in the bottle, and heat on a water bath until dissolved.

Send out with a shake label, as the chloral comes down in cold weather.

Quininae sulphatis	...	...	gr. xvj.
Syr. calcii lactophosph.	...	ad	3iij.

Fiat mistura.

Dissolve the quinine with acid phosph. dil. q.s.

Amm. carb.	...	...	3iss.
Tinct. camph. co.	...	...	3iv.
Terebeni	...	...	3iss.
Syrup. tolutani	...	...	3j.
Infus. senegae	...	ad	3viiij.

M. Ft. mistura.

This is a good example of the use of senega as an emulsifier. Shake the terebene with half the senega, add the rest of the ingredients, and finish off.

Calcii lactatis	...	...	3iiss.
Syr. glyccrophosph. 2 format.	...	...	3ij.
Aqua chlorof.	...	ad	3viiij.

M. Ft. mistura.

Dissolve the lactate in boiling water 4oz., with lactic acid q.s.; make up when cool and add six minims of chloroform instead of chloroform water.

Creosoti	...	...	℥ xxxij.
Mucilaginis	...	...	3iv.
Syrupi	...	...	3iv.
Aqua anisi	...	ad	3iv.

M. Ft. mistura.

This is peculiar in that it develops a reddish colour on standing. This is doubtless due to the phenol-like bodies contained in the creosote becoming oxidised by the air in the emulsion, assisted by a ferment in the gum acacia.

Tinct. strophanthi	...	...	℥ xlviiij.
Liq. strychnine	...	...	℥ lxxx.
Ammon. carb.	...	...	gr. lxiv.
Spiritus chlorof.	...	...	3iv.
Aqua chlorof.	...	ad	3viiij.

M. Ft. mistura.

There is a chance here of the chloroform separating and carrying to the bottom the strychnine liberated from the liquor by the action of the ammonium carbonate. To avoid this, mucilage 3ss. was added.

Chlorodyni	...	...	3ij.
Potassii bromidi	...	...	3ij.
Mag. sulphatis	...	...	3iij.
Aqua laurocerasi	...	ad	3vj.

M. Ft. mistura.

Note the overdose of prussic acid: cherry laurel water ℥xxx is equal to one minim of B.P. acid hydrocyan dil.; therefore, 240 minims of the mixture would be equal to 12 minims of the acid, without counting that contained in the chlorodyne. The doctor not being get-at-able, 3iss of cherry laurel water was used to the whole mixture and the rest made up with aqua distillata.

Potassii iodidi	...	...	3j.
Sodii nitriti	...	...	gr. xij.
Syr. aurantii	...	...	3vj.
Aqua	...	ad	3vj.

M. Ft. mistura.

As any slight acidity of the syrup of orange would have reacted on the nitrite, and the nitrous acid in its turn would have released iodine from the iodide, sodium bicarbonate 10 grains was added to prevent possible trouble.

### LOTIONS

Calaminae fact.	...	...	3ij.
Zinci oxidi	...	...	3iv.
Glycerini	...	...	℥ lxxx.
Aqua rosae	...	ad	3vj.

Fiat lotio.

We do not seem to have arrived at the point of perfection in making artificial calamine reached before the war. Most of the samples are gritty, heavy and difficult to suspend, and in a few cases the lotions made from them become nearly solid in the bottle.

Acidi salicylici	...	...	3ij.
Collosol sulphuris	...	...	3j.
Liq. ammon. acet.	...	...	3iv.
Glycerini	...	...	3iv.
Aqua rosae	...	ad	3vj.

M. Ft. lotio.

The acid was dissolved in the liquor ammon acet., filtered, and the other ingredients added. The collosol sulphur for baths was used, and also in the following example:—

Collosol sulphuris	...	...	3ij.
Paraffini liquidi	...	ad	3vj.

Ft. lotio.

This was sent out with a "shake" label, although it would have been improved by a trace of quillaia tincture or saponin to suspend.

Sodii bicarb.	...	...	3ij.
Sodii biboratis	...	...	3ij.
Liq. thymolis co. B.P.C.	...	...	3j.
Glycerini	...	ad	3viiij.

Fiat lotio.

Warm the borax and glycerin in an open capsule, then add the bicarbonate by degrees, mixed with 3iv of water, and, when effervescence ceases and the mixture is cool, add the liq. thymolis comp.

Thymolis	...	...	...	gr. viij.
Sp. vini rect.	...	...	...	3j.
Sodii bicarb.	...	...	...	3ij.
Aquæ rosæ	...	...	ad	3viij.

M. Ft. lotio.

The thymol was dissolved in the spirit and then poured into the solution of bicarbonate in the rose water, shaken well with 2 drachms of talc powder, and filtered twice through a paper filter, to remove particles of undissolved thymol, which would have been very irritating to the mucous membrane of the nose.

#### OINTMENTS

Ung. chloreton in tube with nasal nozzle.

As no formula was available, the following were warmed until solution was effected, and then cooled and run into the tube:—

Chloreton	...	...	...	gr. xij.
Vaselini albi	...	...	...	3vj.
Glycerini amyli	...	...	...	3j.
Olei cadini.	...	...	...	

Ft. unguentum.

In making glycerin of starch, use arrowroot instead of starch, and make up for evaporation by adding water at the end of the process.

Ung. gallæ c̄ opio	...	...	...	3vj.
Cocain. hydroch.	...	...	...	gr. iij.
Vaselini	...	...	ad	3j.

Ft. unguentum.

Dissolve the cocaine in water q.s., and stir in.

Acidi salicylici	...	...	...	10%
Chrysarobini	...	...	...	10%
Emplastri plumbi	...	...	...	3iss.
Ol. olivæ	...	...	ad	3ij.

Ft. unguentum.

In this case olive oil is not necessary, as the lead oleate reacts with salicylic acid, giving free oleic acid, and the finished ointment is very soft.

#### PILLS

Hexaminæ	...	...	...	gr. iv.
Ext. gent. q.s.	...	...	...	

Fiat pilula.

These were massed with the gentian extract and powdered gentian, and a little tragacanth, so as to be easily put into hard gelatine capsules.

Picis liquidæ	...	...	...	gr. j.
Zinci valerianat.	...	...	...	gr. iss.
Quinina valerianat.	...	...	...	gr. iss.

Fiat pilula.

To mass this so as make a pill of ordinary size was scarcely possible, so the mass was packed in No. 3 hard capsules.

Tab. digitalis et strychnin equal	...	...	...	
to miv. tinct. digitalis and miv.	...	...	...	
of liq. strychninae.	...	...	...	

Mitte xxx.

Equivalents of fld. ext. digitalis and strychnine hydrochlor were rubbed up with sugar, cacao powder and tragacanth, massed with syrup of glucose, and cut into tablets on the pill machine.

Capsul. ferri iodidi (mx. syrapi).

Mitte xx.

The ferrous iodide pill mass of the B.P. codex made with powdered marshmallow instead of gum and liquorice, was put up in No. 4 hard capsules.

#### POWDERS

Menthol	...	...	...	gr. xij.
Acidi borici	...	...	...	3iv.
Bismuthi subnit.	...	...	...	3vj.
Pulv. benzoini	...	...	...	3vj.

Fiat pulvis sternutatorius.

Sift the benzoin through the finest muslin and afterwards sift all together.

Orthoform	...	...	...	3iv.
Resorcin	...	...	...	3ij.

Fiat pulvis pro insufflatione.

Rub down the orthoform and resorcin separately, and finally mix by sifting.

The chief interest in this is, first, the price, and secondly, the necessity for sifting, as when rubbed together many of these organic compounds become electrified and adhere to such an extent that insufflation is almost impossible.

#### PASTES

Bismuthi subnit.	...	...	...	3iv.
Iodoformi	...	...	...	3j.
Paraff. liq.	...	...	...	3iv.

Fiat pasta.

Heat the powders together to 120° C. for half an hour. Stir in the paraffin previously heated until it smokes, and make a stiff paste. When cold, rub smooth on a sterilised slab with sterilised spatula.

This was for filling "sinuses" in surgical work, hence the necessity for cleanliness and sterilisation.

Glue	...	...	...	250
Water	...	...	...	250
Glycerin	...	...	...	10
Calcium chloride	...	...	...	10
Thymol	...	...	...	1

Make a paste. (Sinclair's glue for surgical extensions.)

#### FOREIGN PRESCRIPTIONS

##### Italian

Infusione di poligala 4%	...	...	...	100
Alcool	...	...	...	50
Ioduro di potassio	...	...	...	12
Elixir paregorico	...	...	...	25
Tintura di lobelia	...	...	...	25

A cucchiaini.

Inf. senegæ 4%	...	...	...	100
Alcohol	...	...	...	50
Potass. iodid.	...	...	...	12
Tinct. lobeliæ (1-10)	...	...	...	25

3j. for a dose.

All by weight, measured 215 c.c.

Iodio metallico	...	...	...	centigrammi .01
Ioduro di sodio	...	...	...	.02
Acqua distillata sterile cm	...	...	...	uno.

Una fiala tales No. 30.

Fill into ampoules which have been thoroughly washed and sterilised; seal up with the blowpipe, and then heat in water raised slowly to boiling point, and kept at that temperature for an hour.

##### Spanish

Aleanfor pulverizado	...	...	...	1
Azufre precipitado	...	...	...	1
Acido salicilico	...	...	...	1
Esencia de enebro	...	...	...	5
Vaselina	...	...	...	15
Lanolina	...	...	...	15

Hacer pomada.

The translation of the above is:—

Camphor	...	...	...	gram 1
Precipitated sulphur	...	...	...	1
Salicylic acid	...	...	...	1
Essential oil of juniper	...	...	...	5
Vaseline	...	...	...	15
Lanolin	...	...	...	15

The only difficulty was as to what the prescriber wanted. Essential oil of juniper was certainly written, but what had been made up in Spain was the aceite de enebro or oil of cade.

Licor arsenical de Fowler	...	...	...	10
Agua destilada de Menta	...	...	...	10

Tomar en gotas (to be taken in drops).

This illustrates the careless way Continental doctors have of prescribing powerful medicines, not even the number of drops being stated.



## Associations' Winter Session

**Aberdeen.**—At a meeting of the Aberdeen Pharmaceutical Association, held on February 13, an interesting lecture was delivered on *Petroleum from the Wells to the Pharmacy*, by Mr. Sydney Jamieson, M.P.S., of the Anglo-American Oil Co. Mr. James Farquhar (President) was in the chair. The lecture was illustrated by lantern slides, and isopropyl-alcohol, one of the many by-products, was touched upon. Mr. Ratray, Ph.C., manipulated the lantern.

**Belfast.**—A meeting of the North Irish Pharmacists' Association was held in the C. & D. Rooms on February 16. Mr. M. McDonald (President) occupied the chair, and there were also present, Messrs. Wilson, McKnight, Tate, Morris, Todd, Busby, Edwards, McKinsty, Adams, Mitchell, McDowell, and Culbert. The secretary read a post-card from a non-member asking for an idea of prices prevailing under the Dispensing Schedule. After a discussion it was agreed that a price schedule be sent. The secretary read a communication from Mr. A. W. Mann suggesting that a social evening should be arranged to which all the members of the First-Aid Class be invited, and that at this social meeting the certificates won by the members of this class should be presented. Mr. A. Wilson proposed the following sub-committee to carry out the necessary arrangements:—The President, the Hon. Secretary, Messrs. Adams, McKinsty, McDowell, and Busby. This was passed unanimously. The President then gave a detailed account of the proposed Corporation Bill to introduce Municipal Night Dispensaries, and said that after conversation with leading M.P.s he gathered that the proposers were prepared to accept an amendment. The next subject to be discussed was a letter Mr. Culbert had received from Mr. Lancashire (Ballymena), on the pricing of prescriptions from Co. Antrim Tuberculosis Committee. Mr. Culbert said that the chemists in and around Antrim, Larne, Ballymena, Coleraine, Downpatrick, and Ballymoney had been asked to quote for these prescriptions, and the prices quoted varied to such an extent that Mr. Lancashire had suggested to him that this matter should be brought to the notice of the N.I.P.A. to see if unification of prices could not be arrived at. After a lengthy discussion it was agreed that the secretary be directed to send to all the chemists in the different provincial towns the prices arranged by the Belfast Corporation Tuberculosis Department with the Belfast chemists, but suggesting that 50 per cent. on Evans or B.D.H. price list be added instead of 40 per cent., and that a dispensing fee of 6d. instead of 3d. be charged, other fees in proportion. This was passed.

**Ealing.**—The Ealing Pharmacists' Association met on February 13, when the Vice-President (Mr. H. A. Irwin) presided. A discussion on various matters of interest occupied the evening.

**Edinburgh.**—The Edinburgh Chemists' Assistants' and Apprentices' Association met at 36 York Place, Edinburgh, on February 14, Mr. Thomas A. Smith, M.P.S. (president), in the chair. The proceedings consisted of a practical lecture demonstration on *A Botanical Ramble in Spring*, by Mr. J. Rutherford Hall, Ph.C. The lecture was illustrated by fresh specimens of thirty-eight genera and species belonging to twenty natural orders, all collected from fields, woods and lanes within the extended city boundaries. The phenomenal mildness of the season was commented upon and strikingly illustrated by a bunch of *Lanum album* stems twelve inches high, some bearing as many as six verticillasters of fully-developed flowers. There was also exhibited under the microscope an interesting series of plant sections sent by Mr. Peter Fenton, M.P.S., Kirkcaldy.

**Lancashire (N.E.).**—In view of the recent formation of a North-East Lancashire branch of the Pharmaceutical Society, it was decided by a representative meeting of Blackburn pharmacists, held on February 15, to wind up the activities of the old North-East Lancashire Chemists' Association and to form a new body to be known as the Blackburn and District Chemists' Association. Mr. R. Pickup (President) explained the reason for the change. Mr. Fred Law (secretary), who presented the financial

statement, said the year closed with £60 15s. 7d. in the bank and £2 2s. 1d. in hand. It would be for the meeting to decide how to apportion this money. The balance included the amount raised for the establishment of a special fund to found a scholarship in pharmacy at the Technical College. The Chairman said the whole question was discussed at a meeting of the committee the previous week. In deciding upon a new Association and a new title they wanted to work on the lines of the Retail Pharmacists' Union, and the committee recommended that membership should be confined to those who were in business on their own account. Mr. J. E. Isherwood moved that £62 from the funds of the North-East Lancashire Association be applied to the "R. L. Gifford Testimonial Fund," and that the balance be used to defray current expenses. The resolution was carried. Mr. Isherwood then moved that the old Association be dissolved, and that the new organisation be formed, it being confined to retail proprietor pharmacists. This was seconded by Mr. Parkinson and carried. The framing of the rules was left to the committee. Mr. Lightbown proposed the appointment of Mr. R. Pickup as *President*, who had served them well during the last twelve months, and it was very opportune that he should continue in office. The election was agreed to. Other officers appointed were: *Vice-President*, Mr. W. Holt; *Treasurer*, Mr. J. E. Isherwood; *Auditor*, Mr. W. H. Lightbown; *General Secretary*, Mr. Fred Law; and *Committee*, Messrs. R. L. Gifford, J.P., J. Yates, A. Yates, A. Dobson, R. H. McMyn, and R. H. Quinn.

**Leicester.**—At a meeting of the Leicester and Leicestershire Pharmaceutical Assistants' Association, held on February 14, Mr. H. A. Martin gave a paper on *Salesmanship*, of which the following is a brief summary:—When selling own goods, choose the kind that your trade will stand for: Eliminate the persons to whom own goods should not be mentioned. If customers do not give you an opening for selling, endeavour to make one; Assemble complete selling talks in order that any objection or question will be met: Tell the truth about your article in a simple and convincing manner: Adopt the attitude of fairness to the competing article and build your sales by suggestion. It is a simple matter to have an index card with name of own article written at the top: On the left the various points, viz.: (1) Ingredients and action; (2) Purity; (3) Convenience; (4) Appearance; (5) Application, followed by favourable opinions of any customers, together with objections and how they are to be met. A list of accessories to recommend along with the article will complete the card. This card can then be handed round to members of the staff so that a correct knowledge of the goods and the most important is known. A salesman cannot have confidence in any goods unless he knows them. Introduce accessories whenever possible; besides increasing returns the "original" purchase will most likely give a better result and the customer be more satisfied. Study of the customer is necessary, and the three primary types, nervous, phlegmatic, and sanguine, are the main types to study. After a little practice the placing of each is not difficult and they should be met accordingly, and the best obtained from each, not his money only, but his goodwill, friendship, satisfaction, and recommendation. A satisfied customer is the best advertisement. If a complaint, rectify at once, it may be fanciful or it may be genuine. Every sale giving satisfaction makes it easier to make other sales, this means confidence. The salesman should know his own self-qualifications, amongst them being ambition, carefulness, enthusiasm, energy, appearance, courage, courtesy, confidence, honesty, optimism, memory, judgment and reliability. Weed out any undesirable traits and control certain tendencies that would interfere with success. Merit begets confidence, confidence begets enthusiasm, and enthusiasm conquers the world.

**London (S.E.).**—The South-East London Chemists' Association held a joint meeting with the local branch of the Pharmaceutical Society at Lewisham on February 13, when Mr. F. Harrison Glew (Clapham) gave a lantern lecture entitled *Radium* (with experiments). A most enjoyable and instructive evening was the result. The hall was packed when the Chairman (Mr. J. Milner)



called upon Mr. Glew, who traced the discovery of radium through the earlier experiments of Professor Röntgen in connection with the x-rays. The researches of Professor and Madame Curie in Paris came later, as did those of Professor Rutherford in this country, to whom the chief honours should be given. Mr. Glew touched upon his experiences during the war with radium when he was doing Government work. The experiments which followed showed the wonderful penetrative power of radium. The lantern slides were of a very interesting nature. At the close the President (Mr. Milner) proposed a vote of thanks to Mr. Glew, who, in his reply, asked that a collection might be taken for the Benevolent Fund. This realised the useful sum of £3 3s. Butcher, Curnow & Co., Blackheath, provided the lantern.

**Manchester.**—A meeting of the Manchester Pharmaceutical Association was held on February 14, when Mr. E. H. Simmons (President) in the chair welcomed some of the officials of the Salford Chemists' Association, and introduced Dr. J. Stanley White, who gave his lecture on *Vitamines*. This was listened to with great interest, and at the close, after questions were answered by Dr. White, a vote of thanks was accorded.

**Redhill.**—The Reigate and Redhill Pharmacists' Association held a meeting on February 14. The President (Mr. H. Hocken) occupied the chair, and introduced Mr. G. A. Mallinson, secretary of the Retail Pharmacists' Union, to the assembly, who said that he hoped he would be able to convince the non-members of the R.P.U. of their lack of discernment in remaining outside the benefits of this institution. The R.P.U. constituted a combination which was unequalled in any other trade or profession, consisting as it did of three main agencies. As an active force its influence was felt in securing for the retailer the best possible conditions of business and in waging constant war against any encroachment on the rights of their profession. As a defensive force its position was unrivalled, this being testified by the hundreds of chemists who avail themselves of its services every year. Finally, the Proprietary Articles Trade Association was a powerful factor in securing for the chemist a living profit on the articles he trades in. These three distinct departments were at the service of every chemist in business for the nominal subscription of 30s. per annum. In addition to these main departments, the Union possessed numerous subsidiary spheres of service. The Chemists' Defence Association provided for indemnity up to the sum of £500 and costs, undertook the defence in cases of prosecution, and also offered free legal advice on all matters appertaining to the craft. Mr. Mallinson concluded his remarks with an appeal on behalf of the Chemists' Mutual Insurance Co., Ltd., and urged all present to support this new movement. Mr. W. H. Fowler was elected as a delegate to attend the conference of delegates from the R.P.U. branches.

**Southend-on-Sea.**—At the annual general meeting of the Southend Pharmacists' Association, held recently, the President (Mr. A. H. Carpenter) occupied the chair. The chairman said the Association extended a special welcome to the two officers from the headquarters of the Pharmaceutical Society in London, who had come down specially to inaugurate and explain the Society's new formation of branches. The Association would now be regarded as the Southend Branch of the Pharmaceutical Society of Great Britain. The chairman asked the acceptance by Mr. Body (their retiring secretary) of a suit case and a pair of briar pipes in case as a souvenir and remembrance from his friends and colleagues of the Southend Association of Pharmacists. He asked Mr. Body to regard the gift as a token of the high esteem in which he was held in the Association and of the recognition of all his hard work and zeal. He was not only one of the founders of the Association, but had held every high office to be had, including the presidential chair, twice. As an organiser he had no equal. The Association much regretted his loss as secretary, but were compensated by his remaining on their committee. Mr. Carpenter was re-elected *President*; Mr. W. T. Hill was elected *Vice-President*; Mr. G. Bruce, *secretary*; Mr. R. W. Oldland, *treasurer*; Mr. W. Jerome, *hon. solicitor*, and a committee of eight members was appointed.

## Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Local Reports

#### ENGLAND AND WALES

**Blackburn.**—At a meeting of the Insurance Committee, on February 15, the clerk said £6,648 had been expended upon drugs and appliances for insured persons during 1922; 176,408 prescriptions had been dispensed, and the average cost per script was 9.04d. It was decided to circularise doctors during holiday periods, indicating the addresses of chemists available for dispensing prescriptions during holidays.

**Lancashire.**—The question whether saccharin and gluten bread constitute medicines or foods in the case of a person suffering from diabetes was discussed by the Insurance Committee, at Preston, on February 19. The subject arose out of the fact that a medical practitioner in Accrington had issued a prescription for saccharin and gluten bread, and the chemist had informed the insured person, suffering from diabetes, that he was not entitled to have these. The clerk to the committee replied that if gluten bread and saccharin were foods they could not constitute a charge upon the drug fund, and should not be prescribed. The patient died, and the coroner returned a verdict of "Death from natural causes." At this inquest the practitioner protested against the action of the Lancashire committee in rejecting his prescription. Mr. F. Thomas (chairman) said the clerk, in reply to the practitioner's question, had sent a qualified statement that if the doctor thought the commodities were medicines he was at liberty to prescribe them, and the chemist to dispense. To make sure, the clerk had written to the Ministry, and had received the following reply by telegram: "Gluten bread not chargeable to drug fund. Letter follows." So that the Ministry itself had turned it down, even if it was prescribed as a medicine. A member pointed out that the message made no mention of saccharin. It was decided to wait for the Ministry's letter before discussing the matter further.

**London.**—A meeting of the Pharmaceutical Committee was held on February 13, 1923, Mr. H. Skinner (chairman) presiding. The report of the Central Checking Bureau for October and November 1922 showed a margin of error for October of 0.06 per cent., and for November of 0.05 per cent. For the convenience of the pharmaceutical representatives on the Medical Benefit Sub-Committee it was decided to fix the date of the meeting of the Pharmaceutical Committee for the third Tuesday in each month. The secretary reported, *inter alia*, the following particulars of dispensing for the month of November:—

Value of ingredients ... ..	£7,706 13 7
Value of dispensing-fees ... ..	£10,166 11 1
Number of prescriptions ... ..	539,801
Average ingredient cost ... ..	3.43d.
Average dispensing-fee cost ... ..	4.52d.

During November and December the names of twenty persons were added to the panel list of chemists, while nine were removed. For the administrative expenses of the Pharmaceutical Committee it had been decided to deduct from chemists' accounts during 1923 one per cent. Particulars of the Conference of representative bodies which took place at the Guildhall on January 30 and 31, 1923, were given. In view of the special circumstances, the Insurance Committee had submitted particulars of a chemist's account for the observation of the Pharmaceutical Committee.

**Smethwick.**—At a meeting of the Insurance Committee, held recently, the Medical Benefit Sub-Committee reported that four tests had been made in regard to dispensing, and in each case the medicine was accurately dispensed. Further tests are to be made. A revised rota of chemists who will open on Wednesdays for dispensing prescriptions has been received from the Pharmaceutical Committee. In the cash statement for the year ended December 31 expenditure included: Drug Fund, 1921, £459 0s. 2d., and 1922, £3,408 3s. 7d.



## Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Quantities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected quantities of natural products even in bulk quantities.

42, Cannon Street, E.C.4, February 22

The volume of business done in the Mincing Lane produce markets shows a falling-off this week compared with last. Sugar is steady down to slightly lower values, but the market is still sensitive. Rubber is inactive, with a small trade passing, and on the week the price has declined about  $\frac{1}{4}$ d. per lb. Zanzibar cloves continue active, and arrival prices are again higher. Peppers are firmer for forward delivery. Shellac is dull and unchanged. Menthol is nominal, and the price seems a matter of negotiation in the absence of a market. Ergot maintains its firmer tendency; Canada balsam sells freely, with higher prices asked at primary sources. Fennel seed is dearer, and canary is neglected and lower. Honey is in fair demand. Good tamarinds are scarce; balsam tolu and sarsaparilla are firmer, and cascara sagrada is steady. Some of the fixed oils are dearer this week, these including coconut, cottonseed and rape. A sharp rise in carbolic acid is a feature among chemicals, and this in turn is already reflected in higher prices for salicylic acid and sodium salicylate.

Higher	Firmer	Easier	Lower
Acid oils	Bergamot oil	Acetone	Canary seed
Barbitone	Dill seed	Betanaphthol	Culvers root
Carbolic acid	Geranium oil	Cassia oil	Menthol
Clove oil	Hexamethylene	Citronella oil	Phenolphthalein
Cloves (Zan.)	Lithopone	Hempseed	Potash prussiate
Coconut	Orange oil	Hydrastis	
(desicc.)	Palm oils	Mint oil (Jp.)	
Coconut oils	Paraformaldehyde	Rubber	
Cottonseed oils	Peppers	Safrol	
Fennel seed	(forward)		
Rape oils	Potash caustic		
Salicylic acid			
Salol			
Sodium salicylate			
Zinc oxides			

### Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

	Par value	February 14	February 21
Amsterdam, chqs. fl.	12.107	11.833—11.843	11.89—11.893
Berlin .. marks	20.43	100,000—103,000	106—109,000
Brussels, chqs. fr.	25.223	88.30—88.40	87.35—87.45
Calcutta, rup. ..	2s.	16 $\frac{1}{2}$ d.	16 $\frac{3}{4}$ —16 $\frac{1}{2}$ d.
Constantinople pstrs.	110	715—755	700—750*
Greece .. drch.	25.223	385—390	420—425
Italy, sight .. lire	25.223	973—98	973—973
Lisbon, sight escudo	531	21d.—21d.	21d.—21d.
Madrid, sight .. pes.	25.223	29.97—30.00	30.03—30.05
Montreal, cable \$	4.863	4.723—4.733	4.783—4.793
New York, cable \$	4.863	4.683—4.683	4.713—4.72
Paris, chqs. fr.	25.223	77.75—77.85	76.80—76.90
Singapore .. t.t. dollar		28 $\frac{1}{2}$ d.	28 $\frac{1}{2}$ d.—28 $\frac{1}{2}$ d.
Switzerland .. fr.	25.223	24.94—24.96	25.03—25.09
Vienna .. kr.	24.02	325—335,000	325—335,000
Yokohama, T.T. yen	24.58d.	24 $\frac{1}{2}$ d.—24 $\frac{1}{2}$ d.	24 $\frac{1}{2}$ d.—24 $\frac{1}{2}$ d.

\* Nominal.

### Cablegrams

NEW YORK, February 20.—Business is dull. Cartagena ipecacuanha is dearer at \$1.90 per lb., and Oregon balsam of fir is again higher at \$2.75 per U.S. gallon. Antipyrin has advanced to \$2.35 per lb. Short buchu has declined to \$1.00 per lb., and mercury is also lower at \$69.00 per bottle.

BERGEN, February 21.—The total catch of cod for the whole of Norway since the opening of the season amounts to 3,900,000 against 3,400,000 for the corre-

sponding week of last year, and the yield of steam-refined medicinal oil is 7,635 hectolitres, against 6,845 hectolitres for the same period of 1922. Price of finest new medicinal steam-refined oil of 1923 crop is about 96s. per barrel, c.i.f. London.

### Crude Drugs, etc.

AGAR AGAR is firm at from 6s. 3d. to 6s. 6d. for Japanese No. 1, and at 4s. 9d. afloat. There is little demand, and a long period of high prices has curtailed consumption considerably.

ALOES.—A fair quantity of Bombay Socotrine in kegs has been sold; value of fine hard bright in skins is £10 per cwt. and Mocha £6 per cwt.

The exports from the Union of South Africa during November amounted to 43,263 lb. (value £261). During the eleven months ended November 30, 1922, the total exports were 531,129 lb. (value £3,458), compared with 408,171 lb. (value £3,337) for the corresponding period of 1921.

ANTIMONY.—The general tendency continues firm, but business in English regulus is perforce restricted, due to the limited quantities held by refiners. Foreign refined on the spot is held for £25 10s. to £25, and terms for shipment are about £23 10s. Crude has been offering at about £19 per ton, but the demand is slow, and for shipment £19 c.i.f. is quoted.

ARECA.—Small sales of Ceylon to arrive have been made at about 30s. per cwt., c.i.f. London.

BALSAM CANADA has been selling freely of late, at about 6s. per lb. on the spot. Primary sources offer sparingly at the equivalent of 6s. 9 $\frac{1}{2}$ d. per lb.

BALSAM TOLU continues firm on the spot at 3s. 9d. per lb. for good bright hard.

BUCHU.—The exports from the Union of South Africa during November amounted to 5,902 lb. (value £1,012), against 21,275 lb. (value £3,297) in 1921. During the eleven months ended November 30, 1922, the total exports were 123,274 lb. (value £15,662), compared with 111,612 lb. (value £19,300) for the corresponding period of 1921.

CAMPHOR.—Japanese refined 2 $\frac{1}{2}$ -lb. slabs continue quiet with sellers at 3s. 9 $\frac{1}{2}$ d. per lb. on the spot, and February-March shipment at 3s. 5d. c.i.f. Chinese crude is 3s. 5d. spot, and February-March shipment is 3s. 2d. c.i.f.

CASCARA SAGRADA is steady at 75s. per cwt. for three-year-old bark on the spot; 657 packages have arrived from the Pacific coast per "Katuna."

CHAULMOOGRA OIL is offered at 3s. 6d. per lb. for *Taraktogenus Kurzii*, and at 3s. for *Hydnocarpus Wightiana*.

COD LIVER OIL.—Our Bergen correspondent writes on February 19 that the cod fishing at Lofoten and neighbourhood is taking place on favourable conditions. At several districts, however, the cod is not so large and not so fat this week as formerly, and for this reason the price of livers has risen from 18 to 20 öre to 25 to 30 öre. Consequently the price of cod liver oil is temporarily firmer. The total output of all the Norwegian cod fisheries, compared with that of the previous years, is as follows:—

	Catch of Cod	Yield of Steam refined cod-liver oil	Livers for Crude oil
		4.163 (Hect.)	2,163 (Hect.)
Feb. 10, 1922	2,200,000		
Feb. 11, 1921	2,000,000	4,100 "	1,011 "
Feb. 13, 1920	2,000,000	3,900 "	600 "
Feb. 14, 1919	2,000,000	3,300 "	1,100 "
Feb. 15, 1918	1,000,000	1,100 "	800 "

The market is quiet in Bergen, and lately from 92s. to 94s. has been paid for 1922 non-freezing steam-refined quality, and for new oil from 95s. to 98s. is asked at London.

CULVERS ROOT is cheaper, sellers offering at 1s. 9d. per lb., c.i.f.

ERGOT.—The recent firmer tendency appears to be maintained. Good sound Spanish or Portuguese is offered at 2s., and Russian or Polish at 1s. 10d. per lb. on the spot. Spanish to arrive is offered at 2s. 2d. to 2s. 3d. c.i.f.

GUM ACACIA.—Arrival prices are higher, sellers of fair half-hard natural Sudan sorts quoting 58s., and cleaned at 60s., c.i.f.



**HONEY** is in fair demand and prices remain firm. New-crop Jamaica has arrived on the London market somewhat earlier than usual, and partly consists of clear bright pale amber liquid. Values vary from 55s. to 65s. per cwt., and brown to dull amber 40s. to 45s. Supplies of good white Cuban appear to have been mostly absorbed.

**HYDRASTIS** is a shade easier on the spot at 16s. per lb. **JALAP.**—Spot supplies are small, with Mexican 10 per cent. offered at 1s. 6d., 8 per cent. at 1s. 3d., and 7 per cent. at 1s. 2d. per lb. Good high-testing root is scarce on the spot. Current values are (7 per cent.) 1s. 2d. (8 per cent.), 1s. 3d. and (10 per cent.) 1s. 6d. per lb.

**MENTHOL** is inactive, with spot sellers of Kobayashi-Suzuki at 37s. per lb., but in the absence of business this figure is regarded as nominal. For February-March shipment sellers quote 30s. c.i.f.

**MERCURY.**—There seems to be keen competition on the part of dealers lately, offers having been reported at below £10 5s. per bottle, while some parcels have been sold down to £10 to £10 2s. 6d. On the other hand, one hears of business having been also done this week up to £10 7s. 6d. in Spanish. The nearest quotation at the moment would seem about £10 5s. A little has been sold to India and the demand is fair, although buyers are cautious. The fact that America is now inquiring on this side for quite a good line would tend to give one the impression that the stocks in that country had been rather reduced. Production in the United States is still very low, and larger imports seem only a matter of time. It is believed in some quarters that stocks at the Spanish mines have been accumulating lately. Arrivals in London this week comprise 33 cwt. from Italy and 30,000 lb. from Spain.

**PODOPHYLLUM ROOT.**—For good quality of American from 97s. 6d. to 100s. per cwt. is asked on the spot.

**RUBBER** is steady, but very inactive; on the week it has declined about ¼d. per lb. The demand continues for the near positions only, and consequently the speculative element is having a somewhat lean time at the moment. The feature of the market is the very heavy deliveries which took place last week, 2,375 tons have been delivered; against this figure was the arrival of 1,469 tons, which resulted in a reduction of 906 tons in the stocks. The London stock at present stands at 71,206 tons. "Off grades" are moving very slowly, and importers are disinclined to meet buyers' ideas of prices. Quotations (Wednesday, 5 p.m.):—No. 1 crêpe and ribbed smoked sheet, spot and February 1s. 5½d. to 1s. 5¾d., March 1s. 5¾d., April-June 1s. 6¼d., July-September 1s. 6¾d., October-December 1s. 6¾d. Hard fine Para, very dull at 1s. 5d. sellers. Balata continues to be wanted, and a very good business has been done this week at firmer prices; W.I. sheet 3s. 8½d., Venezuela block 3s. 5d.

**SARSAPARILLA** remains firm, with stocks of genuine grey Jamaica practically cleared, value being 3s. 9d. Native-Jamaica is 1s. 9d. to 2s., Lima-Jamaica 3s. 6d. to 3s. 7d., Mexican 1s. 6d., and Honduras 2s. 6d. per lb. Genuine roll Honduras is offered at 2s. 8d. per lb., c.i.f., and Mexican at 1s. 2d., c.i.f.

**SCAMMONY ROOT.**—A limited quantity of Mexican is quoted at 37s. 6d. per cwt. for 14.65 per cent.

**SENEGA** meets with a slight inquiry, with sellers at from 3s. 5d. to 3s. 6d. per lb. on the spot. The "President Garfield" has brought 35 bales to London.

**SENNA.**—There is a continued scarcity of good bold green Tinnevely leaf, and such would command 6d. to 7½d. per lb., but medium-grade stocks are plentiful at 4½d. to 5d. Fair bold green Alexandrian leaf can be had at 9d., and good green siftings at 7d. per lb. Pods vary from 7d. to 1s. 3d. per lb. for common dull to good green selected Alexandrian, and Tinnevely pods offer at from 2½d. to 3d. per lb.

**SHELLAC** continues dull of sale, spot sellers quoting usual standard TN Orange quality at 360s. to 365s. per cwt. Futures are also inactive, March sellers quoting 347s. 6d. and May 322s. 6d., these figures being nominal.

**STARCH PRODUCTS.**—Farina is steady with if anything a firmer tendency, Japanese No. 1 offering at 16s. per

cwt. Dutch is 14s. 6d. on the spot, and for prompt shipment 13s. 6d. f.o.b. is quoted. English rice starch crystals offer at £40, and Continental at £34 per ton. Maize starch powder is 14s. 4½d., and superior Dutch dextrin 24s. 3d. per cwt., No. 2 being 20s. 6d. American maize is 17s. 6d. on the spot.

**SUGAR.**—As hinted in our last week's report, violent fluctuations have since taken place, with the result that the market is now steadying down to slightly lower values. The White Terminal market has a fairly firm undertone, but the volume of business has greatly diminished; on Wednesday evening August delivery was done up to 28s. 9d. English refiners quote granulated at 58s. 6d., and standard cubes at 65s. per cwt. We deal with the recent rise editorially on page 270.

**TAMARINDS.**—No East Indian appear to be available, but several parcels sold to arrive are on the way. Good West Indian are also scarce, and only common quality appears to be on offer.

### Seeds, Spices, etc.

**CLOVES.**—Zanzibar are again dearer, both on spot and forward. Last week the spot market closed at 1s. 0¾d., but subsequently up to 1s. 1d. was paid, and the market on Wednesday closed at this price. To arrive, the sales include January-March shipment at 1s. to 1s. 1d. to 1s. 0¾d., March-May at 11½d. to 1s. 0¾d. to 1s. 0¾d., May-July at 11½d. to 11½d. c.i.f.

**COCONUT (DESICCATED)** is again dearer, halves on spot selling up to 40s. 3d., and medium at 40s. 6d. to 40s. 9d. for immediate delivery. To arrive, February-March shipment has been sold at 39s. 9d. to 40s. 3d. per cwt. c.i.f., closing sellers at 39s. 6d. c.i.f., and March-April at 39s. 9d. to 40s. c.i.f.

**GINGER** is firm. Cochin washed rough is 62s. 6d., and wormy is 57s. 6d.; ordinary rough Calicut it 60s., and fine 65s. African is 47s. 6d. in London and Liverpool. Small Jamaica is 190s., and bold 230s. Japanese is 50s. on the spot.

**PEPPER** is firm, with sales of fair black Singapore on the spot at 4¼d. per lb. To arrive, February-April shipments and March-May shipments have been sold at 4¾d. c.i.f. Tellicherry is 41s. c.i.f. for February-April shipment, and Aleppy is 40s. c.i.f. for February-April shipment. White pepper is firm, Muntok selling at 6½d. to 6½d. To arrive, sales include February-April shipment at 6½d. to 6½d., and March-May shipment at 6d. to 6½d. per lb. c.i.f. The value of fair white Singapore on the spot is 6d. per lb.

**SEEDS.**—The following are current spot quotations:—RUSSIAN ANISE 68s. to 70s. per cwt., and Spanish 95s. CANARY SEED is neglected at £17 10s. per ton for Mazagan and Larache is now £15 15s. per ton. DUTCH CARAWAY SEED is 140s. per cwt., and Morocco 95s. per cwt. CUMIN SEED is 140s. per cwt. for good quality. DILL SEED is 22s. 6d. per cwt. for good quality. FENNEL SEED is dearer at 85s. per cwt. for French, and East Indian of good quality is 80s. per cwt. FENUGREEK SEED is 27s. per cwt. HEMP SEED 16s. per cwt. MOROCCO LINSEED 22s. 6d., and Tetuan 24s. per cwt. MUSTARD SEED is 30s. to 35s. per cwt. SOUND CORIANDER SEED is 61s. per cwt., and wormy 35s. to 47s. 6d.

### Essential Oils

Reports of important inquiries being in the market for at least three articles has caused a fair amount of interest, and demand generally is better this week. Sicilian oils are reported to have advanced at the source, and bergamot is expected to maintain its improved position. Clove oil is dearer on the higher spice basis. Bourbon geranium is no longer obtainable on the spot in quantity. Ceylon citronella and cassia have eased off. Japanese mint is also cheaper, and demand quite inactive. Brown camphor oil is short on the spot. Safrol is cheaper.

**ANISE (STAR).**—"Red Ship" on the spot is dull and unchanged at from 2s. to 2s. 1½d. per lb. as to quantity, and for shipment 1s. 10d., c.i.f., is quoted.

**BAV.**—West Indian is quoted at from 10s. to 11s. per lb. on the spot.

**BERGAMOT.**—Reports from the source state that stocks have been withdrawn, and there are no sellers at market



rates. For shipment, 11s. 6d. c.i.f. has been quoted without engagement, but up to 12s. has been mentioned in some directions. Spot is firm at from 11s. 6d. to 12s. 6d. per lb. for 37 to 39 l.a., according to seller.

CAJUPUT has been in demand on the spot, and stocks have been reduced. Spot holders quote 3s. 9d. to 3s. 10d. per lb.

CAMPOR.—White essential is obtainable at the easier figure of 80s. to 82s. 6d. per cwt. Brown on the spot is very scarce.

CASSIA on the spot is quiet for 80 to 85 c.a., at from 8s. to 8s. 3d. per lb. The price to arrive January-February shipment is from 7s. to 7s. 3d. c.i.f. as to position.

CINNAMON.—Ceylon leaf on the spot is unchanged at from 4d. to 4½d. per oz., and to arrive 3½d. c.i.f. is quoted.

CITRONELLA.—Ceylon is quieter again and easier, with sellers at 3s. 3d. per lb., on the spot. The price for shipment is 3s. 1d. c.i.f. Sales of Java have been made about 3s. 6d. spot. The price to arrive is 3s. 4¾d. c.i.f.

CLOVE.—English distillers' price has advanced to 8s. 3d. per lb., on the spot. Re-sellers, however, are able to quote under this.

GERANIUM.—Bourbon has been in good demand and sales have been reported at from 26s. 6d. to 27s. per lb. and buyers. Offers are made at 26s. 6d. per lb., c.i.f. London from Marseilles. Spot stocks appear to be almost cleared.

LEMON is firm at from 2s. 8d. to 2s. 10d. per lb., c.i.f. Spot is quoted at from 2s. 8d. to 2s. 11d. per lb. as to seller.

LEMONGRASS.—Cochin on the spot is quoted at 2½d. per oz. The price to arrive is 2¾d., c.i.f. in some directions. Buyers' ideas of value are about 2¾d.

LIME.—West Indian continues to sell steadily on the spot at 2s. 11d. per lb. Hand-pressed is nominal at 7s. 6d.

MINT.—Japanese dementholised Kobayashi-Suzuki is weak at 6s. 9d. to 6s. 10½d. per lb., on the spot. The price quoted for shipment is 5s. 10d. to 5s. 11d. c.i.f.

ORANGE.—Sicilian sweet is firmer for shipment at from 9s. to 9s. 9d. c.i.f. On the spot there are sellers at from 8s. 6d. to 9s. 6d. per lb.

PALMAROSA on the spot is steady at 17s. 6d. per lb. in original pots.

PATCHOULI has been in good demand, on the spot. Sellers of Penang quote from 30s. to 33s. per lb.

PEPPERMINT.—American natural is nominal at 13s. 6d. per lb., with sellers at 6d. less in some quarters.

ROSEMARY.—Spanish on the spot is steady at from 1s. 8d. to 1s. 9d. per lb. according to quantity.

SANDALWOOD on the spot is unchanged for B.P. oil at from 25s. to 25s. 6d. per lb., on the spot.

VETIVERT.—Bourbon is quiet and unchanged at from 17s. to 18s. per lb.

#### Aromatic and Synthetic Chemicals, etc.

AMYL SALICYLATE is quoted on the spot at from 3s. to 3s. 3d. per lb. COUMARIN is steady at 12s. to 12s. 3d. per lb. BENZYL ACETATE and BENZOATE is quoted at 2s. 6d. HELIOTROPINE is steady at from 5s. 9d. to 6s. 3d. METHYL SALICYLATE in carboys is quoted at 2s. 1d. per lb. SAFROL in drums is cheaper at 2s. 4d. to 2s. 5d., and in tins and cases as 2s. 6d. VANILLIN is steady at from 23s. to 24s.

#### Pharmaceutical Chemicals, etc.

THE quieter tone reported last week continues in the fine chemical market. Business for home account has been distinctly poor, but for export a fair inquiry is coming in from Japan. Spot prices are in most cases steady at level rates on the week. The Continental position is reported very firm with quoted prices fully maintained, and there is now some doubt on the possibility of much in the way of further supplies coming through, especially from occupied Germany. Some holders of spot material are inclined to put up their prices, but so far the lack of demand has not brought about

a general movement in that direction which certainly seems to be warranted by the position in Germany. Salicylates are dearer.

ACETANILIDE is quoted on a quiet market from 1s. 5d. to 1s. 6d. per lb.

AMIDOPYRIN is irregular on offer on spot from 12s. 6d. to 13s. 6d. per lb.; the market remains almost idle.

ASPIRIN is at level rates on the week, with a fair volume of business passing in the region of 2s. 9d. to 2s. 10d. per lb.

BARBITONE, on account of advances on the Continent, is now quoted at the higher rate of 13s. per lb. in some quarters, but there is very little doing.

BENZOIC ACID.—B.P. is steady in the region of 2s. to 2s. 2d. per lb. with not much call on the market. The Continental position is firm.

BROMIDES.—Our remarks of the last two weeks still apply to this market. There are now quite large stocks offering on spot, and some of them in big lots are at very cheap rates. The demand remains poor. Ammonium, from 7¾d. to 9d. per lb.; potassium, crystals and granular, 6½d. to 8d. per lb.; sodium, crystals and granular, 6¾d. to 8d. per lb.

CALCIUM LACTATE is steady but business is slow; quoted on spot at about 2s. per lb.

CHLORAL HYDRATE is offering on spot in the region of 4s. per lb. for duty-paid, with most sellers shading this price.

CITRIC ACID is meeting with fair inquiry for late forward positions as quoted at 1s. 7d. per lb. Spot stuff is offering at about 1s. 7¾d. to 1s. 8d. per lb.

CREOSOTE.—B.P. holds at 2s. 6d. per lb. on a quiet market.

CREOSOTE CARBONATE meets with only small inquiry, and is quoted at about 10s. per lb.

GUALACOL CARBONATE has not improved, and the price is nominal at about 8s. per lb.

HEXAMINE remains steady on spot at about 3s. 10d. to 4s. per lb. The Continental position is very firm.

HYDROQUINONE is not much called for on spot; but as the Continental rates are firmer some spot prices are advanced to 3s. 6d. to 3s. 9d. per lb.

METHYL SULPHONAL continues to be quoted at about 13s. per lb. on an uninterested market.

MILK SUGAR.—Dealers are offering at about 97s. 6d. to 100s. per cwt. and slightly less for good quantities.

PARAFORMALDEHYDE is firmer in consequence of higher rates from the Continent. Spot offers are now mostly at about 3s. 3d. to 3s. 4d. per lb.

PARALDEHYDE as offered on spot in the region of 1s. 5½d. per lb. is slow in moving off.

PHENACETIN.—The spot market is influenced by the position on the Continent. Some holders are now asking up to 5s. 3d. per lb., but it is improbable that they are selling at this price.

PHENAZONE varies on the spot. One hears of big lots much below the quoted rates of 7s. per lb. The Continental price is on the up grade.

PHENOLPHTHALEIN seems just a shade weaker with 4s. 10d. to 5s. per lb. bottom selling prices.

POTASSIUM PERMANGANATE.—B.P. stands quite steady, and is meeting with a fair demand in the region of 8½d. per lb.

RESORCIN has recovered a little, and 5s. 3d. to 5s. 6d. per lb. is now asked on spot, but there is little inquiry.

SALICYLIC ACID is firmly held at about 1s. 6d. per lb. from dealers, and it would not be surprising to see an advance by the end of the week. Makers quote 1s. 7d. per lb., and the opinion is expressed that prices may go to 1s. 8d. to 1s. 9d.

SALOL has jumped to 2s. 4d. to 2s. 6d. per lb., on account of a similar movement on the Continent.

SODIUM BENZOATE is steady at 2s. per lb., but there is very little business passing. The Continental position stands firm.

SODIUM SALICYLATE.—The position is firmer again this week with spot rates showing a further advance. Powder and crystals are now quoted at about 2s. 2d. per lb., and still higher rates are expected with confidence.



SULPHONAL is nominal on an inactive market at 12s. 6d. per lb.

TANNIC ACID.—Leviss is quoted unchanged at 3s. 6d. per lb. with the market quiet.

TERPENE HYDRATE is steady at 1s. 9d. per lb., but there is little doing.

THEOBROMINE.—The pure alkaloid is quoted at 12s. 6d. per lb., and theobromine sodium salicylate at 7s. 6d. per lb.

### Industrial Chemicals, etc.

London, February 21.

THE tone remains on the quiet side, but nevertheless prices are being maintained. The latter fact is no doubt due to the much firmer position on the Continent, and the difficulty that is now being experienced in getting supplies through from Germany. This latter point will, no doubt, become more acute as time goes on and is bound to have the effect of making the spot market stronger. At present, however, owing to the lack of demand and rather heavy stocks on hand, there has been little development in this direction.

ACETIC ACID.—The spot position is very healthy, and stocks are now rather depleted. Shipment prices are firmer and conditions for much coming to hand are unfavourable, consequently dealers are expecting an advance in spot rates before long: 40 per cent. pure and technical, £44 per ton; 98 per cent. glacial, £60 in casks and £67 in carboys, ex wharf, London.

ACETONE.—There is now some stock of limited size to offer on spot, and the price is inclined to be a shade easier in the region of £127 per ton for British Government specification.

ARSENIC has remained very tight in the absence of any further offers worth mentioning from the Continent. Grecian producers are virtually out of the market, although it is possible that another few orders could be squeezed in in that direction at full prices for forward delivery, say at around £67 c.i.f. There is not much Cornish white powder to be got, and the small consumers are chiefly dependent on this material to fill their needs at the fancy rates current, ranging from about £71 to £72, and even more in some of the northern markets. The demand looks like remaining in excess of the supply for some time yet.

BARIUM CHLORIDE has been little called for; the spot price is level at £17 per ton, with Continental rates firmer.

BARYTES is a better market, and the prices range from £3 10s. to £7 per ton, according to quality.

BLEACHING POWDER remains slow of sale with the quoted rate based on 35-37 per cent. Continental at £10 15s. to £11 per ton.

COPPER SULPHATE.—The export demand has been comparatively quiet, and makers in some cases have been shading terms in order to attract Continental customers; they quote £26 5s. to £26 10s. At the present much higher cost of rough bar copper, which has risen again by some pounds per ton, it is difficult to imagine that the market will give way further. In fact, should anything like an improvement become manifest in the demand, prices would presumably be put up to some extent or to a level more consistent with the actual cost of production.

CREAM OF TARTAR is a good and steady market with the price well maintained at 92s. 6d. to 95s. per cwt. according to quantity for spot material. Forward offers are at about 7s. 6d. per cwt. cheaper. German prices are firm.

FORMALDEHYDE is available on spot at about £90 per ton, with the market steady. Forward shipping prices are firmer this week, and may affect the market here in due course.

GLAUBER'S SALT remains slack, with offers in the region of £3 12s. 6d. to £3 15s. per ton, in bags.

LEAD PRODUCTS.—Dealers' prices are:—Litharge and red lead, £35 per ton; white lead, dry, £39; there is good inquiry, but difficulty in obtaining delivery from the Continent is being experienced. British makers'

prices:—Litharge advanced to £37 10s. per ton; red lead, £42 per ton, less 2½ per cent.; dry white lead, £46 per ton.

LITHOPONE is a shade firmer on spot at about £20 10s. per ton for 30 per cent. Continental red seal, for which there is a fair inquiry and not much to offer on spot.

OXALIC ACID holds at last week's easier price of 6½d. per lb., but the market is still dull.

POTASH CAUSTIC is firmer owing to advances on the Continent. Spot 88 to 92 per cent., in drums, is now worth about £30 to £30 10s. per ton.

POTASSIUM BICHROMATE is unchanged on a rather quiet market at 6d. per lb.

POTASSIUM CARBONATE is heavily stocked on spot, with the demand only moderate. Spot prices are, however, fully maintained on account of firmer conditions on the Continent and the probability of nothing much further coming through: 90 to 92 per cent., £26 10s.; 96 to 98 per cent., £30 per ton.

POTASSIUM CHLORATE has met with some good business in some quarters, with the price at about 5d. per lb.

POTASSIUM PERMANGANATE is very steady with inquiry continuing: the spot rate is about 7½d. to 8d. per lb.

POTASSIUM PRUSSATE is somewhat easier this week in price owing to the very keen competition for business. It is generally offered at about 1s. 5½d., but sales have been made at lower rates.

SODA CAUSTIC.—This market, so far as dealers are concerned, remains very flat. Their offers are unchanged at: 70 to 72 per cent., £19 10s.; 76 to 77 per cent., £21 10s. per ton, ex wharf, shipping port. British makers quote unchanged to domestic consumers on contract at: 70 to 72 per cent., £20; 76 to 77 per cent., £21 10s. per ton, in drums, carriage paid.

SODIUM HYPOSULPHITE seems to have got down to a steady basis of business, and a slight advance is not unlikely: Pea crystals, in one-cwt. kegs, £15 to £15 10s. per ton; commercial, £10 per ton, in casks.

SODIUM PRUSSATE is still a poor market, and the quoted rate of 9d. per lb. is difficult to obtain.

SODIUM SULPHIDE is unchanged and the demand remains light: 60 to 62 per cent. solid, £15 10s. to £16; 60 to 62 per cent. broken, £16 to £16 10s. per ton, in drums; 60 to 65 per cent. concentrated, £16 per ton, in casks.

ZINC OXIDES.—British makers report a further advance in their rates this morning, with B.P. at £55 and white seal at £45 per ton, f.o.r. works. Dealers of imported quote: Red seal, £41; green seal, £44 10s.; white seal, £47 10s. per ton.

COAL TAR PRODUCTS, ETC.—Carbolic acid crystals have advanced considerably owing to a good inquiry for Japan, and supplies are much diminished. The movement for higher prices has not yet finished. Pitch stands very firm at last week's value. Hexamethylene is dearer. Other products are about the same on the week, with business slow. ANILINE OIL and SALT remain an idle market, with values quoted nominally at about 11d. per lb., packages free. BETANAPHTHOL is a shade easier, with the market still flat at 1s. 4d. per lb. Pitch in London is firm at about 165s. per ton. Supplies are still very much below the demand, and the outlook does not promise much in the way of easier conditions for some time to come. Pure METHYL ALCOHOL is rather scarce on spot, and firmer conditions are reported in shipping quarters. The spot price is maintained at £110 per ton, ex wharf London. CARBOLIC ACID is much dearer in consequence of a good inquiry from Japan. One or two of the large dealers who have stocks of crystals on hand have made sales at from 1s. 4d. to 1s. 6d. per gallon, but the makers have not reached these figures, as their stocks are very limited, and at the moment it is a dealer's market. CRUDE CARBOLIC is very scarce at from 3s. 6d. to 3s. 9d. per gallon for 60's. CREOSOTE OIL holds quite steadily from 8½d. to 9d. per gallon. PYRIDINE is steady but not very active at 12s. per gallon, in London. HEXAMETHYLENE is firmer, with nothing much now offering in London below 3s. 6d. per gallon. NAPHTHALENE is steady but slow of sale at about £17 per ton. Crude, £5 to £10 10s.; crystals, £16; powder, £16; balls, £24; tablets, £23; candles, £23 per ton, packages free. DISINFECTANTS are unchanged on a dull market at 3s. 9d. per gallon, barrels free.



## Fixed Oils, etc.

WITH the exceptions of perhaps linseed oil and turpentine products in this market have experienced a much better demand this week, and there has been a general advance in prices with the markets closing firm. Linseed oil was at for some days, but now seems to be livening up a little. Turpentine also seems to be a healthier market, and some opinions favour higher prices to come. ACID OILS.—Prices for all grades show up at higher rates than last week and stand firm at the close with the market active: Coconut, 35s.; palm-kernel, 35s.; groundnut, 35s. CASTOR OIL is firm with rates unchanged: Pharmaceutical, 54s.; first pressings, 49s.; second pressings, 46s. Spot to June delivery in not less than one-ton lots, ex mills, Hull. COCONUT OIL, after a week of good business, closes firm at advanced rates for all grades: Deodorised, 47s. 6d.; Ceylon, 43s. 6d.; Cochin, 46s. 6d. COTTONSEED OIL.—Business has shown a big improvement during the week, and at the close prices for all grades had appreciated very materially: Deodorised, 47s.; common edible, 44s. 6d.; soapmaking, 43s.; crude, 40s. GROUNDNUT OIL is steady, with rates quoted unchanged on the week: Deodorised, 55s.; crude Oriental, 46s. LINSEED OIL.—Market conditions are becoming more normal by degrees, due to the better quantities of seed that have come in of late, chiefly from the River Plate. There has been, so far, not much set-back in the cost of seed, owing to the active foreign demand, but the shipments have assumed decidedly larger dimensions. On the week prices show up at a slight discount, but there is a steadier tone towards the close with the possibility of a further recovery in raw naked oil. For some days early on the market was flat, but now there is more sign of business: On spot, 41s. 6d.; March-April, 37s. 6d.; May-August, 35s. 9d.; September-December, 34s. 6d. Hull, on spot, 39s.; March-April, 35s. 6d.; May-August, 34s. 6d.; September-December, 34s. 1½d. PALM-KERNEL OIL.—Values have appreciated on an active market, which closes firm: Deodorised, 45s. 6d.; crude, 40s. PALM OIL.—A further week of good business is recorded, with the spot rates still on the up-grade. Lagos is now up to 37s.; softs have risen to 36s. 6d.; and hards are quoted in some quarters up to 38s. 3d. The market continues firm. RAPE OIL.—Spot rates are higher with the market steady: Refined, 49s.; crude, 45s. SOYA BEAN OIL.—At the advanced rates quoted this product closes quite steady with business improved: Deodorised, 47s.; crude Oriental, 40s. TURPENTINE (American).—This market continues to carry the brighter outlook reported last week, and business has been generally on a larger scale: On spot, 109s. to 109s. 6d.; February-April, 110s. Visible stocks for week ending February 17 are returned at 14,800 barrels in London.

## German Drug and Chemical Markets

"WAIT AND SEE" best characterises the attitude adopted by manufacturers, dealers and purchasers. It is now acknowledged that the chemical industry is particularly hard hit by the prohibition of the export of coal and its by-products from the occupied territory, and the most significant move on the part of the chemical manufacturers is the action taken by the Farbenfabriken vorm. Friedr. Bayer & Co. of fixing the price for the home market of one of their products, viz., heroin, in gold marks, at 450 gold marks per kilo, a step justified by reference to the present conditions affecting the price of morphine, and it is generally assumed that other manufacturers will follow this example. Hitherto prices have been quoted only by dealers in foreign currencies in the case of imported drugs, as a precaution against the vagaries of the exchange. However, the main topic has been the action undertaken to appreciate the mark, the initial success of which caused considerable perturbation in wide circles who stood to be practically ruined when faced by the necessity of unloading goods at prices far below cost. Hence the protest that the action should not be prosecuted further than to stabilise the mark on the basis of £=100,000 marks, and \$1=20,000 marks. Considerable interest has been aroused by the suggestions embodied in the report submitted by the economic and financial commission of the Imperial Ministry of Economics to prevent the German currency from becoming utterly valueless. These suggestions, which have been endorsed by the Imperial Minister of Finance—without adding to his popularity—have passed

almost unnoticed abroad, are of a very far-reaching character, and may be summarised as follows:—The Imperial Bank should intervene in the foreign exchanges; drastic curtailment of the credits granted by this institution to firms, also it should cease to discount financial bills; the gold reserve of the Imperial Bank should be utilised to create an adequate stock of foreign moneys to meet the indispensable import requirements; steps should be taken to secure credits abroad; speculation in foreign currencies and hoarding of the same should be suppressed, and free dealings in foreign bills prevented, by the creation of a central office for foreign currencies; the Imperial Bank should be empowered to open credit accounts on a gold basis against payments in foreign currencies; the flotation of an internal loan on a stable basis; taxes should be collected with greater promptitude; and finally, that more effective steps should be taken to insure the surrender by exporters of payments made to them in foreign currencies. The last measure is directed against the tendency to deposit payments due from importers abroad in foreign banks and thus deprive the German authorities of all control over such funds. Some confusion having been created by the adoption of varying dates in crediting to German exporters the value of the 26 per cent. reparations certificates issued by the British Custom House, it is announced that for amounts under £50 the rate of exchange ruling on the twenty-first day of the month, and for amounts over £50 that quoted on the fifteenth day of the month following the date stated on the British certificate will be adopted. It is reported that French customs officers have seized in Düsseldorf 200,000 litres of industrial alcohol and 25,000 litres of potable alcohol, this being a German Government monopoly, and in connection with the recent Franco-Belgian measures it is interesting to note that the proposal is mooted that both Governments should create special bureaux in Allied countries for the sale of the products seized in the occupied territories. The following are the export prices quoted on the German market, in foreign currencies, per kilo:—Acetanilide, 2s. 7d.; acetyl-salicylic acid, \$1.25; ammonium carbonate, £33 per ton; antipyrine, 10s.; caffeine, 26s.; carbolic acid, 1s. 3d.; citric acid, 3s. 7d., and 17.80 to 18.50 lire; cream of tartar, 98 to 100 per cent., \$44 per 100 kilos; ergot, 3s. 8d.; fennel, \$0.50; French fennel, 1s. 7d.; glycerin, 28° Bé., chemically pure, \$40 per 100 kilos; menthol, 36s. per lb.; milk sugar, £85 per ton; phenacetin, 10s.; phenolphthalein, 7s.; potassium bromide, 8d.; potassium permanganate, £52.54 per ton; santolin, £82; salicylic acid, 2s. 5d.; Heyden, 2s. 8d.; sodium benzoate, 1s. 3d. to 1s. 5d. per lb.; tartaric acid, fl. 1.45; vanillin, 48s.

In connection with the recent appreciation of the mark, the Berlin chief of police finds it necessary to issue a statement to the effect that to his astonishment he has noticed that although the recent increase in the value of the dollar was immediately reflected in the higher prices demanded for all kinds of goods, the fall of nearly 50 per cent. in the exchange rate of the dollar during the past week has had practically no effect on prices. On the contrary, the observation has been made that the prices of a number of goods manufactured in the country are now higher than for those imported from abroad, or containing a preponderant amount of foreign raw materials. Consequently, the police are enjoined to proceed against all persons suspected of demanding usurious prices.

## Hungarian Drug Market

Budapest, February 3.

STOCKS have evidently diminished, and the demand is somewhat firmer for many articles. The German mark has fallen to one-twentieth of the Hungarian krone, and therefore the Germans are buying from Hungary in kronen and selling on the dollar and sterling basis. Trade is slightly better this month, and good business is prophesied for March. Some of the quotations (per cwt.) in Budapest are the equivalent of:—*Herbs*—Henbane 120s. (only in small quantities), stramonium 20s., marshmallow 10s., belladonna 40s. (very scarce), mellissae 80s., mentha piper 66s., wormwood 13s., centaury 40s. (good quality unobtainable), malva 12s. 6d., horehound 12s., trefoil 30s., cardui benedicti 20s., coltsfoot 15s. *Flowers*—Chamomiles 52s., elder flower, rubbed, 50s., yarrow 12s. 6d., lime 60s., verbascum 140s., tansy 20s., acacia 12s. 6d. *Roots*—Alkanet 8s. 6d., belladonna 35s. (very scarce), calamus 12s. 6d., hellebore nig. 12s., althae, crude, 12s., althae, peeled, 25s., soapwort, white, 23s., valerian 45s. (very scarce), juniper berries 7s., cantharides 6s. 6d. per lb. (getting scarce), ergot 1s. 3d. per lb. For the benefit of buyers it is well to note that the expenses from Budapest to London average about 14s. per cwt. on lots up to five tons. The above prices are f.o.b. Danube, Budapest, or f.o.r. Budapest.





Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

### Price Protection Schemes

SIR,—All your correspondents upon this subject are agreed that the costs from the raw material to the consumer have increased. Messrs. Leath & Ross are the only makers who have come forward to state the case of the manufacturers, although other writers attempt to illustrate their case. All of them make a very poor show, and unless something better is produced to prove their case the manufacturers must accept the conclusion reached. "Xrayser II." and others show that advertising is costly, but it is not excessive. Advertising conveys the message, only how? At its own price figure. This is where much of the trouble lies. The wholesaler and retailer are on a different footing: they carry and finance the goods all the way, and have to take what they can get for doing so. Both are now determined that they won't be hampered by being burdened with "other folks' weans." Figures cannot alter facts, and the facts are that it takes 20 to 22 per cent. at least to run a pharmacy successfully. Proprietary-article manufacturers will require to make up their minds that such is the case, and so alter their prices and costs so that the wholesaler and retailer will have 50 per cent. of the selling price—minus stamp duty—between them. This is only a matter of time. Money to-day can easily be invested in Government stock showing 4 to 5 per cent. Business men who wish to invest in a commercial concern want 6 to 6½ per cent.; this represents a fair profit. Messrs. Leath & Ross (*C. & D.*, February 10, p. 209) introduce the P.A.T.A., and muddle up the small consumer in a vain endeavour to support a weak case. It is a constructive policy that is required, and I must admit I have long been surprised that nothing has been done. The whole case is only a matter of justice to all along the line and simplicity itself. The present methods, such as the "Billingsgate dozen," are completely devoid of common sense, and resemble nothing better than primitive nature in its crudest form.

Yours faithfully,

A. MACKSEE (20/2).

SIR,—We did not miss the point of Mr. Nicholson's letter, as he states (*C. & D.*, February 17, p. 246), but, as we wrote in our last, it was, in our opinion, only a distinction without a difference. It insisted that one portion of the community (his own) must swim; let the others sink if they like. We prefer arguments more on the principle of "Audi alteram partem." The remainder of his letter is so well and completely answered by "Common Sense" that there is no need for any recapitulation on our part.

Yours faithfully,

LEATH & ROSS.

London, N.W.6.

SIR,—The one basic fact missed by most of your correspondents on the question of the price of proprietary articles is that the patent remedy is a usurper of the pharmacist's legitimate drug sales, and if, instead of selling his own goods, he is compelled to sell advertised articles, then he should be paid the equivalent for doing so. One traveller, who called on me only last week with a new remedy which was in direct competition with a line I have put up and sold for years, read me a long lecture when I refused to give him my window and a ten-pound order. What he said in effect was that the pharmacist as such was dead—he was now merely a distributor of advertised lines; and if I failed to recognise this fact he was going to sell his parcel to my nearest opponent, who would jump at it. Well, I may be wrong, but it seems to me that if the pharmacists in the future are going to be like so many newspaper boys, who receive

their bundles and hand them out for a commission, then it is the end of all skilled training, higher education examination, and the rest. The fact is, that many advertisers trade on the gullibility of the British public.

Faithfully yours,

OLD EDITION (19/1).

### The Training of Students

SIR,—The important matter of the training of apprentices looms large before the pharmaceutical body. Since this question, as a matter of general policy, was first raised at a recent meeting of the Brighton and Hove Association, and then referred to the South-Eastern Federation, the following observations may be of interest—they are indicative of the lines on which our Association thought the matter should be considered, and are submitted for general discussion and improvement:—

(1) Every local branch of the Pharmaceutical Society should have a small sub-committee to deal with educational matters, to negotiate with the local education committee (borough or county), to visit the approved schools, and render help and advice whenever and wherever required. In Brighton this "Pharmaceutical Advisory Committee" consists of five chemists, and their collaboration with the Technical College authorities has been, undoubtedly, a beneficial and successful one.

(2) Each branch should use its influence to get the technical college in that area "approved" by the Pharmaceutical Society for Part I. of the Qualifying examination. If this be neglected, whatever training students put in counts for nothing as regards the number of hours stipulated for by the curriculum. As a rule, education committees are very willing to fall into line, and most technical schools have equipment sufficiently complete to enable them to be recognised as approved training centres for Part I.

(3) It is very desirable that intending pupils should have passed an examination, entitling them to be registered as students, before indentures are signed. It should be noted that the regulations demand a specified number of hours subsequent to registration.

(4) Time off should be allowed to the apprentice so that, using some of his half-holiday, he may have received sufficient training, and put in the requisite number of hours, to enable him to take Part I. after two years. That an apprentice should be expected to use some of his leisure for the purpose of training may not appeal at all. Personally, I think it particularly desirable, from a psychological standpoint. His knowledge of chemistry will be of great assistance during the remaining period of his training, and with Part I. out of the way he will be free to concentrate on work in the pharmacy with intelligence and interest.

(5) To enable apprentices from the surrounding district to attend, these "part-time" classes for Part I. should be held preferably in the afternoon of, say, two days per week. Travelling difficulties will often prevent country apprentices from attending evening classes. Representations to this effect might be made by the advisory committee mentioned in paragraph (1). The afternoon classes in Brighton promise to develop into a big success; they have made Part I. possible to most apprentices in Sussex.

(6) It is not wise that apprenticeship should cease at an earlier age than twenty. Hence, if commenced at sixteen, it should be for four years; if commenced later, for three.

(7) Some attempt should be made to standardise remuneration. In no case should it be so high as to attract an undesirable type of youth, who would make the calling a blind-alley occupation. Probably 5s., 10s. and 20s. for the three-year pupil will be generally acceptable. An apprentice is far better off at 5s. and a master with a full sense of his responsibilities than as cheap labour at 20s.

(8) A declaration, signed by the employer, to the effect that the indentures have been completed in a satisfactory manner, might well replace the bare stipulation now necessary (see official regulations) before the candidate is allowed to sit for Part II. This question of apprentices is of vital importance. If pharmacy is to stand high in the future, its ranks must be recruited from the right type of youth. The youth we want will have had a sound preliminary education;



he will have learnt to "Play for his team"; he will be willing, in the years to come, to take his share in the team work of pharmacy, and help to consolidate that spirit of loyalty which hitherto has been somewhat lacking.

I am, etc.,

EDGAR JONES,

President, Brighton, Hove and District  
Branch of the Pharmaceutical Society.

### Past and Present Business Methods

SIR,—There is no doubt that "Jay Mack's" point with regard to auditors has something to be said for it; they do increase the costs of working and introduce methods which tend to delay; but, in these days of income-tax inquisition, I fail to see how one can do without them. I do not think the income-tax assessors would accept a man's own figures, for large firms, at any rate, or if they did they would assess at such a rate, or require such information, that he would soon be out of his depth and pay heavily in the long run. There is also no doubt that trade-union regulations are responsible for a lot of the delay and inconvenience caused by restrictive methods, and the difficulty is to find the happy medium where trade can be carried on to its fullest extent without unduly interfering with the liberty of the worker.

Yours, etc.,

RETURNED EMIGRANT (20/1).

### Unemployment in the Drug-trade

SIR,—There is a nucleus of opinion in drug circles in favour of workers' unions, but unfortunately very little comes of it. Stimulated by the exertions of Mr. Whitley, meetings were held in various centres, addressed by directors and managers; a large influx of members resulted, and the prospect looked rosy and hopeful. There were some who predicted an early demise, and, of course, many who saw in all this effort a mere pretence. It was too good to be true. To any sensible member it must have been obvious that no union of workers was likely to be effective for any purpose of real importance when staffed by—practically—nominees of the managing directorate. Real union was never more necessary than at present. Since 1916, in fact, a real union could have helped to stem the tide of unemployment. It is impossible to interfere with the general management of a big business, but there is such a thing as moral suasion. Most people consider the times badly chosen for dismissals of men grown old and grey in the service. What these old "hands" are to do when they find themselves "on the street" is a matter that concerns them very greatly, but is not of much moment to the firm itself. The calamity is liable to attack all workers in turn. Also, in these days of acute house shortage, the transfer of a man from one district to another for no particular reason may be almost as bad as dismissal. Unemployment is serious enough wherever it is, but among an educated class it is at its worst. It has been suggested that each trade should provide for its own unemployed. And sooner or later there will be a special tax or levy. This, in a sense, would be quite right, though it would be sure to hit the most inoffensive. It is commonly believed that when assistants are scarce the Society can be relied on to open the gates a bit wider. Every examination period lets in a new flood of candidates for non-existent posts. Where is the sense of it? The retention of so many untrained female assistants has been and remains something of a scandal. The outlook, in short, indicates that the matter is one for careful consideration by the Society. The Benevolent Fund must find new and liberal supporters, and a general levy may be anticipated. The companies certainly, and many chemists, could very well afford it.

Yours faithfully,

METOL Q. (20/2).

### Legal Queries

K. M. (270/33).—WARMING OINTMENT is not a dutiable title under the Medicine Stamp Act.

B. T. (19/12).—"Arsenic and its preparations" are poisons within the meaning of Part I. of the Irish Sale of Poisons Act.

R. M. G. (14/2).—Both the labels you send are so worded as to render the articles to which they are affixed liable to medicine-stamp duty.

C. M. (29/1).—The proportion of nepenthe in the prescription, a copy of which you send, is so small that it is outside the Regulations made under the Dangerous Drugs Act.

H. & C. (4/1).—The poison laws of the United States vary in the different States, but several to which we have referred limit the sale of aconite to registered pharmacists.

W. T. (5/1).—The sale of pills containing ext. hyoscyami comes within Part II. of the Poisons Schedule, i.e., they can only be sold by registered chemists or medical practitioners.

T. D. (23/1).—LIP SALVE TITLE.—A reference to the formula in "Pharmaceutical Formulas" would make a lip salve into a "known, admitted and approved" remedy, or you could call the article "lip stick" or "lip application" without incurring liability to medicine stamp duty.

J. C. (30/12).—ANNUAL PROFITS.—The points you raise regarding gross and net profits are answered in detail in a letter in the *C. & D.*, December 9, 1922, p. 834. Where accurate accounts are not kept a trader is unable to prove his income, and is more or less at the mercy of the Inland Revenue authorities.

D. O. (11/1).—STATUTORY POISONS cannot legally be sold by unqualified persons. There is no official list, but the extended list of poisons which we publish on Poisons Card No. 2 may be taken to include practically all poisons, their preparations, etc., which are covered by the terms of the various Acts relating to the sale of poisons.

S. & B. (14/1).—The morphine content of the prescription you send is without the Dangerous Drugs Act Regulations, but the Poisons and Pharmacy Act requires that it must be copied in the prescription book. This provision applies in those districts where Insurance Committees only supply single prescription forms for the use of panel practitioners.

Mahos (20/2) has taken an apprentice to whom he has agreed to pay 5s. a week during the first year, 10s. in the second year, and 15s. in the third year. Must the apprentice be insured under the National Health and the Unemployment Insurance schemes? [Apprentices of the age of sixteen years or upwards must be insured under both schemes if they receive any money payment.]

W. B. (13/2).—(1) SALE OF POISONS.—*The Chemist & Druggist Diary*, 1923, gives an epitome of the Poison Laws of Great Britain and Ireland, and Poisons Card No. 2 gives an extended list of poisons covered by the laws referred to in the *Diary*. (2) The *C. & D.* £500 Free Indemnity against accidents is only applicable to qualified chemists or businesses carried on in conformity with the Pharmacy Act, 1868, and the Poisons and Pharmacy Act, 1908.

A. B. S. (20/2).—It is doubtful whether a limited company formed for the purpose of carrying on the business of a chemist can continue without a qualified chemist as superintendent as required by the Poisons and Pharmacy Act, 1908, even if no poisons are sold. The "objects" of the company would be evidence of the class of business conducted. If it is desired to make any change in the kind of business the old company should be wound up in the statutory manner.

C. S. (17/1).—"DANGEROUS" DRUGS REGISTRATION.—You are required to keep a record in a book kept for the purpose under separate headings of all purchases, or sales coming within the Regulations, giving date of purchase or sale, from whom bought or to whom sold, the full name and address, the form, quantity and strength of the drug. In the case of dispensed prescriptions duly entered or those registered in the poisons book, a cross reference is all that is necessary. A record of purchases



must be kept apart from sales. The form of book is immaterial so long as you give the requisite information. The Regulations do not specify a book. There are several good books on the market, all of which, including the one you mention, comply with the conditions we have referred to.

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*J. H. Q.* (New York) (15/1).—DOSE OF IPECACUANHA IN PASTILLES.—The quantity of ext. ipecac. liq. in the cough pastilles (*C. & D. Diary*, 1923) is the usual dose for a pastille. Three-quarters of an ounce would have to be taken before the maximum dose was reached, and long before that the consumer would reject them on account of the capsicin.

*M. D. G.* (13/1).—LOCAL ANÆSTHETIC.—The maximum dose of cocain. hyd. for dental extraction is stated to be  $\frac{1}{2}$  gr. The amount varies according to the number of teeth to be extracted. The dose of the solution made according to your formula would be from  $m_x$  to  $m_{xxx}$ .

*Spee* (15/1).—INSURANCE APPLIANCES TARIFF.—Grey bandages, unless specified as white, must be supplied, as only this variety will be paid for.

*R. W.* (2/1).—SOLVENTS are made non-inflammable by the addition of carbon tetrachloride or trichlorethylene, but we cannot say without experiment whether these will be effective in the case of the solvent used for celluloid.

*B. I. C.* (8/1).—ELECTRODE LUBRICANT.—We think you will find a tragacanth or quince cream answer for the purpose of an electrode lubricant. The proportions for a tragacanth cream are:—

Powdered tragacanth...	...	3ij.
Rectified spirit...	...	3ss
Glycerin ...	...	3iij.
Water ...	...	3vj.

Mix.

*L. & Co.* (3/1).—DISINFECTION OF SICK-ROOM.—The generation of ozone in the sick-room would help to purify the air, but the usual plan is freely to spray Sanitas in the room and place saucers containing the fluid under the bed. In the case you mention it is not simply a question of purifying the air, but of covering the odour of the soaked bedclothes pending their removal.

*E. & S.* (8/1).—We cannot say what is intended by the expression, "essential oil stacte." The Latin word "Stacte" is applied to the oils of cinnamon or myrrh, which exude naturally.

*G. & A.* (7/1).—(1) We have no formulas for elixir luminal or plain liq. papain. (2) Green and golden colours for liquio paraffin consist respectively of oil soluble chlorophyll and the aniline dye known as "butter yellow." The amounts to use can be observed by experiment. (3) The *C. & D.* £500 Free Indemnity Scheme does not cover risks of damage from wireless aeriels.

*R. D.* (24/10).—LOTION FOR ROUGH SKIN.—This preparation has a sp : gr. 0.947, and consists largely of spirit. The total solids amount to 0.68 per cent., and are entirely organic. By odour, colour, sp. gr., etc., compound tincture of lavender appears to be the main component. There is no glycerin, and nothing of a phenolic character present. The quantity of material is too small to make a systematic analysis.

*W. W.* (India) (19/2).—SPIRIT GUM.—The recipe in "Pharmaceutical Formulas" can be modified by reducing the amount of castor oil to  $m_{xx}$  or  $m_{xxx}$ . The spirit gum will then set quicker.

*Keane* (11/12).—OINTMENT FOR ECZEMA.—This appears to be zinc ointment, coloured and characterised by a small quantity of wood tar. There is, however, a very small quantity of an aluminium compound present.

*E. S.* (15/1).—MENTHOLISED COUGH MIXTURE.—The following is the formula for which you ask:—

Liquorice ...	...	16 oz.
Chloroform ...	...	3 oz.
Ether ...	...	3 dr.
Oil of anise ...	...	3 dr.
Menthol ...	...	120 gr.
Oil of peppermint ...	...	1 dr.
Tincture of capsicum...	...	1 oz.
Glycerin ...	...	12 oz.
Oxymel of squill ...	...	90 oz.
Treacle ...	...	120 oz. (fl.)
Water ...	...	to 2 gallons

*E. H. H.* (22/1).—The last reprint of "Pharmaceutical Formulas" was in 1921, when corrections were carried out in the text.

*Napier* (7/11).—CLOTH CLEANER AND GREASE REMOVER.—The sample you send appears to be simply a softened white curd soap.

*A. C. C.* (19/2).—PHOSPHORUS TONIC "P. F.", p. 963.—

Liq. ferri phosph. mag. ...	...	3x.
Acid. phosph. dil ...	...	3v.
Glycerini ...	...	3xxx.
Quin. sulph. ...	...	gr. cc.
Sp. chlorof. ...	...	3xx.
Aquam ad ...	...	Cij.

Dose : A liqueur glassful.

*M.P.S.I.* (19/1).—DISPENSERSHIPS ON LINERS.—Application for positions as dispensers on board passenger vessels should be made to the various steamship companies.

*H. T.* (10/1).—SALARIES PAID BY LIMITED COMPANIES.—The salaries paid to managers and assistants of limited companies now appears to be on a minimum basis, plus commission, as this is considered to give a better gauge of efficiency. The minimum figure varies from as low as £3, but the commission in this case is liberal, so that the salary is known to average £9 to £10 per week when the bonus is included. Most of the cases, however, have the minimum figure of £5 per week, which, with the average bonus, gives a result varying from £6 to £8 per week. This would apply to seniors as well as managers. The junior minimum with commission varies from £4 10s. to £4. If you eliminate commission altogether, your figures could not very well be justly reduced.

*W. H. N.* (13/12).—INFLUENZA MIXTURE.—The composition suggested for this appears to be in general correct, but a little chloroform, and perhaps a trace of peppermint, is also present, possibly in the form of chlorodyne. The sp. gr. of the mixture is 1.002, and the percentage of ash is 0.1. Other salts have been sought as requested, but with negative result.

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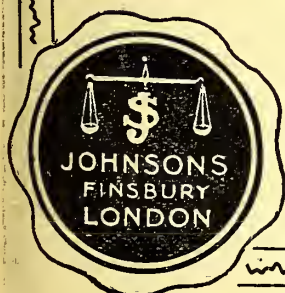
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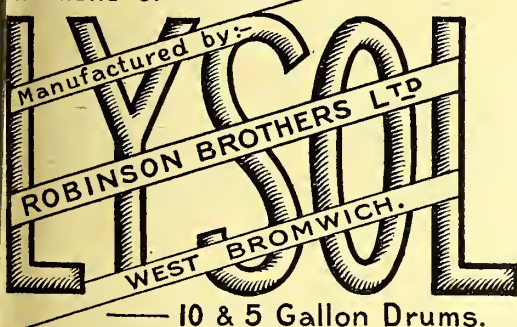
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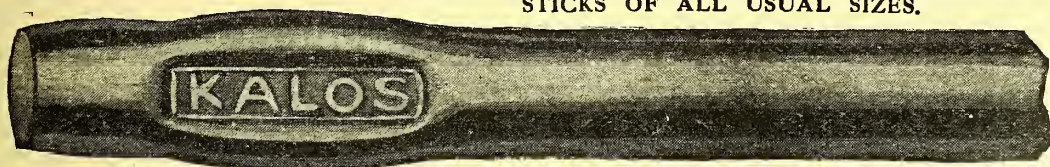
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INVITE ENQUIRIES FOR  
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- 1 IT IS RECOGNISED AS SUCH BY THE LEADING MEDICAL JOURNALS.
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[3]

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We have a Series of these which brings Repeats  
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Recognised by the Medical Profession as  
**THE BEST TONIC.**Supplied in 8-oz. and 16-oz. Bottles by all the  
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**NEW & RARE  
MEDICINES***of French, Italian and Russian Origin.***ROBERTS & CO.,**76 New Bond Street,  
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Paris.**A CANADIAN MESSAGE****To the Retail Chemists and  
Druggists of Great Britain****DURING** the period of the Great War  
we were unable to ship any of our  
Pharmaceutical Products to England, and  
their use and sale were very much re-  
duced as a consequence.We are now constantly detailing and sampling  
Wampole's Specialties to the Medical Profession  
throughout Great Britain, with gratifying results.The leading wholesale druggists of England are carrying a  
full stock of our preparations, and are prepared to fill orders  
promptly from retail chemists.Cod Liver Preparation, 16 oz.  
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**Henry K. Wampole & Co., Ltd.**Manufacturing Pharmacists,  
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Sound  
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ESSENCE. You can rely upon  
its well-proved therapeutic efficiency to  
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profit is fully protected (at the generous  
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secured against the unfair competition  
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quiries, more sales  
and more profit.  
This advance infor-  
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you to have in  
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stocks of all three  
popular sizes :—

	Retail	Wholesale	Profit per
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No. 1 (10 to 20 doses)	1/3	11/3	3½d.
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**for COUGHS & COLDS**Your full rate of profit is secured to you  
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# THERE ARE MANY MAKERS OF OINTMENTS, BUT ONLY ONE "SPUN BRAND"

the sales of which, in spite of numerous imitations, continue to increase enormously year by year—the reason is obvious.

Let us quote you in bulk or packed in decorated tins. Customer's own name and address can be printed on specially designed tins for 25 gross assorted.

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if you persist in stocking goods which are beyond the means of your customers.

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—the only big selling, big profit line—which gets the results—will make your cash till busy again—and what is more important, your customers get complete satisfaction in speedy relief from their Digestive complaints and also in the reasonable cost of the remedy.

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Roughly 100 per cent. on Costs.

Order a small lot—show it—recommend it—Then you will be a pessimist no longer.

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## MEAD'S NEW SERVICE for Infant Feeding

now being introduced to  
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You will receive enquiries and prescriptions for

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Supplies can be obtained from  
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A New Remedy for Eczema and similar inflammatory Skin Diseases.  
3/- size, 27/- per doz. 6/- size, 54/- per doz.

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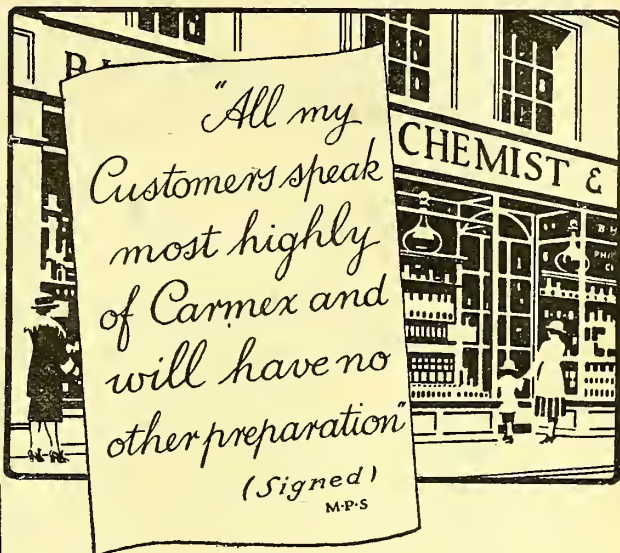
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For **WHOOPIING COUGH**, Asthma, Catarrh  
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(Ungt. Menthol, Nicotin, Camphor Monobrom, Castor,  
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A new heart sedative for external use.

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Customers speak  
most highly  
of Carmex and  
will have no  
other preparation"*  
(Signed)  
M.P.S

**T**HE ABOVE LETTER is typical of many we receive about CARMEX for infants. CARMEX is being recommended everywhere by doctors, child welfare authorities and nurses alike.

For infantile constipation and digestive disorders there is nothing that will prove more acceptable to your customers.

This creamy emulsion is so palatable that children of all ages will take it readily. It rectifies fermentation and allays digestive disturbances generally.

CARMEX has won the approval of the entire medical profession, who prescribe it regularly. You can easily make CARMEX one of the most profitable lines you handle, and there is no time of the year more suitable than the present. Write for particulars of our window show bonus offer.

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**Fellows' Syrup**  
of the  
**Hypophosphites**

THE STANDARD TONIC FOR OVER HALF A CENTURY

Prescribed by Physicians all over the world, Fellows' Syrup of the Hypophosphites, in addition to being in constant and increasing demand, adds distinction to a chemist's show window. It is a symbol of progressiveness and reliability

**Fellows' Laxative Tablets**  
("The Tablet with a pedigree")

In two sizes, namely:

<b>LARGE BOTTLES</b> (containing 100 tablets)	<b>SMALL BOTTLES</b> (containing 40 tablets)
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FOR MEN.

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*A Proven Efficient Remedy*  
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## 100% Satisfaction

Sell an honest remedy which you *know* will give satisfaction and bring repeat orders as well as recommendations.

More than 40,000 letters of praise in two years bear testimony to its efficiency.

It is 100% satisfaction every time with

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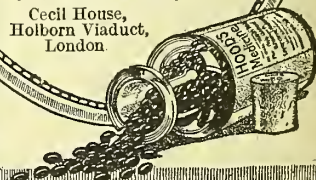
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Packed in glass bottles.

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## A Carminative Antacid Lozenge

The combination of carminatives with neutralising agents and Taka-Diastase is out of the ordinary, and customers who once buy Antacid Lozenges, P., D. & Co., usually buy them again and again.



M.R.P. 1s. 3d. per tin of 48  
M.W.P. 10s. 2d. net per dozen

EVEN AN ORDER FOR ONE DOZEN  
SECURES THIS DISPLAY OUTER

# Clarke's Blood Mixture

## *Special Terms for Window Show*

Any Distributor ordering One Gross 3/- size Blood Mixture—or its equivalent in value—is offered an extra half-dozen Blood Mixture for 14 days' Window Show.

DUMMIES AND SHOWCARDS ENCLOSED WITH EACH ORDER.

**MINIMUM PRICE FACE VALUE**

33½ per cent. on cost to our Distributors.

**FREE CASES**

Carriage Paid on £100 orders.

*Orders despatched in strict rotation.*

**The Lincoln & Midland Counties Drug Co. Ltd.**  
PARK STREET, LINCOLN.

## *Big Offer for Window Displays*

Until further notice we are presenting absolutely free, with each display order, one dozen Glycola Shampoo powders for each

- 1 doz. 1/4 bottles of Glycola
- 2 doz. -/8 bottles of Glycola
- 1 doz. -/10½ tins of Health Salts.

Also usual 10% discount off m.w.p. Don't miss this profitable line of business.

## **CLARK'S GLYCOLA**

is one of the best selling toilet preparations on the market. It is always in good demand and carries an excellent margin of profit. Sell it and display it. It will pay you well.



## **NURSE HARVEY'S MIXTURE**

A safe, simple, and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the retailer has a profitable return on a quick turnover.

*For Direct Terms apply to—*

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## **ERGOAPIOL (Smith) PROTECTIVE MARK**

Patented in U.S. and Foreign Countries.

Ergoapiol (Smith) is now identified by the letters M.H.S. in the gelatin on the inside of each capsule. These letters are not visible from the outside, but they are plainly discernible in the gelatin when the capsule is cut in half.

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CONSIDER "Daisy" from a thoroughly business-like point-of-view—the point of view you have *got* to have to be successful to-day—and you will see how wise you would be to push it *hard*.

For "Daisy" yields you from 50 to 100 per cent. of clear profit; it is easy and quick to handle; the market is big and includes nearly everybody; and it is advertised so heavily and so well that your every "headache" customer will accept it gladly.

We have some attractive new display matter—bills and showcards—that are worthy of a place in the most exclusive pharmacy and put "Daisy" on an altogether higher plane. With every order we will send a generous supply of this strong selling matter, so enabling you to make a money-making display with no trouble at all. And every inch of display space you give to "Daisy" will put silver in your till.

Every day "Daisy" gets more and more users, more and more people learn how safe yet how quickly effective it is. They are passing your window every hour. Let them see that *you* have "DAISY" and into your store they'll come.

Quick, easy, big-profit sales are what every chemist wants. "Daisy" offers them to you to-day. Will you take them?

## Terms

1/- Packets each containing 8 powders—Minimum Retail Price, 1/-; Sample Powder 2d. For not less than 1 doz. Boxes, 9/9 per doz. For not less than 3 doz. Boxes, 9/2 per doz. 2/3 Packets each containing 20 powders—Minimum Retail Price, 2/3. For not less than 1 doz. Boxes, 21/6 per doz. For not less than 3 doz. Boxes, 20/6 per doz. Mixed Orders for 1/-, 2/3, 6/- size and for "Daisy" Tablets on best terms. Discount 7½ per cent. for cash. Carriage Paid to destination. From all Wholesalers or direct.

**Order your season's supply of "DAISY"  
to-day, and let others suffer from the slump**

## Daisy Ltd., Leeds

For over 15 years, ROBOLEINE has been prescribed by the medical profession, and the object of this announcement is to hold its properties known to YOU.

These are the 'DANGER MONTHS'! Make yourself SAFE by taking

## ROBOLEINE

THE ONLY TRUE BODYBUILDER

ROBOLEINE is not a new fangled patent medicine. It is not a mere stimulant or tonic. It is the concentrated essence of the most valuable food products in existence. It consists of Red Marrow, "Cream of Malt," Egg Yolk and neutralised Lemon Juice, and is therefore a perfectly balanced natural FOOD, containing the three vitamins at present known to science. The Medical Profession has consistently recommended Roboleine for the past 15 years.

If you feel that you are 'below par'—if you catch cold easily—if you are susceptible to weather changes, take ROBOLEINE. No patent medicines, drugs or tonics will do you any PERMANENT good.

**ROBOLEINE WILL BUILD YOU UP** and your Doctor will tell you that it will.

The only way is to BUILD UP your system, NOURISH your body, make yourself fit to withstand climatic changes. January, February and March are the DANGER MONTHS. They find out the weak spots unless your body is truly well-nourished.

We put out taking the only sensible precaution against Winter illness. When you take ROBOLEINE you fortify your system by the same means that all the great Sanatoria use and have used for 15 years. For infants in children and in all cases of malnutrition ROBOLEINE is the greatest benefactor. Doctors and nurses are all familiar with its body-building properties.

Your CHEMIST has ROBOLEINE or can get it for you quickly. ASK HIM.

Write for free sample and literature, post free.

Sole Manufacturers: OPPENHEIMER, SON & COMPANY, LTD.,  
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# ROBOLEINE ADVERTISEMENTS

Are now appearing in the high-class weekly papers.

Why not take advantage of this publicity and make easy and profitable sales?

## WINDOW DISPLAY TERMS 50%

profit on outlay—a generous profit on a really sound article. You know what ROBOLEINE is. The doctors know it and prescribe it. The Sanatoria and Welfare centres use it. Will you help to make the present advertising campaign a success by having a window display?

All those who **have** had one tell us that it was a success.

MAY WE SEND YOU FURTHER PARTICULARS?

**OPPENHEIMER, SON & CO., LTD.**

179 Queen Victoria Street, LONDON, E.C.4.

# Kutnow's

# Powder

On the  
P. A. T. A.

Now Pre-War

2/9

Price

Reduced Price means increased sales. See to your stock at once to meet increased demands.



Widely  
Advertised

Price

2/9

Now Pre-War

Write for Dummies, Show Cards, and particulars of Bonus Scheme for your Window Display.

**S. Kutnow & Co., Ltd.**

**41 Farringdon Road, London, E.C.1**



# Ki-uma Sales

## rapidly increasing

There  
is a  
Reason.

THE remarkable curative qualities of Ki-uma, the new Tropical Herbal Ointment for Rheumatism, Neuritis and kindred Ailments, together with the sustained Advertising Campaign, have created ever-increasing sales throughout the country.

Get your stock of this rapid seller now; every tin sold brings new customers by recommendation; this is proved by the testimonials below.

Full particulars of generous terms offered sent on request.

### Remarkable Medical & other Testimony.

#### A Norwegian Doctor writes :—

Røyken, January 24th, 1923.  
I have used Ki-uma myself for a painful contusion of a joint and found it gave wonderful relief from pain.

Letter from well-known Cheltenham Chemist :—  
December 4th, 1922.  
Kindly send 3 doz. Ki-uma. ——— Salts will have to look to its laurels as the champion seller.

#### A Bath Chemist writes :—

November 11th, 1922.  
Ki-uma is proving a good seller. Since we started our window and counter display we have sold 10 doz. in the last month.

#### Note by Editor, "Chemist & Druggist" :—

November 11th, 1922  
We were shown a sheaf of complimentary letters from well-known people, including several medical men of standing, which seems to show that Ki-uma has the power of quickly alleviating rheumatic disorders.

#### S. M. J. Woods, the well-known Athlete, writes :—

September, 1922.  
My doctor gave me a pot of Ki-uma Ointment for Rheumatism. I have found it most successful in my case. It is first-rate stuff, as it rubs in so well and quickly relieves pain.

#### A Bath Physician states :—

I have prescribed Ki-uma for some of my patients and have obtained most excellent results.

#### Another Bath Doctor writes :—

September, 1922.  
For years past I have suffered from a chronic skin affection which hitherto has resisted all treatment. I tried Ki-uma and am not exaggerating in the least in saying that it has proved most efficacious.

#### Talboys, Keevil, Trowbridge :—

October 2nd, 1922.  
The Countess of Kingston is glad to be able to say that she has found the Ki-uma Ointment of great benefit for her rheumatic knee.

#### Sir Edwin A. Speed writes :—

October 10th, 1922.  
I have been meaning to write and tell you that Ki-uma has completely cured my Tennis Elbow, which has defied me for two years. It really is rather wonderful.

#### A lady from Bury St. Edmunds writes :—

December 30th, 1922.  
Ki-uma has acted like a charm with me. It first cured Neuritis in my hands. Later I was attacked with Rheumatism in my left leg. I can only describe it as torture. I continued to apply Ki-uma and now the pain has quite gone.

#### Remenham Rectory, Henley-on-Thames :—

January 8th, 1923.  
I have found Ki-uma very effective. I was troubled with an acute attack of Rheumatism in my knee. I tried Ki-uma with extraordinarily good results. I am now free from pain. The stuff must contain some wonderful emollient properties.

#### An eminent London Physician writes :—

London, August, 1922.  
I have used Ki-uma in my own case for Rheumatism associated with the muscles and joints of my neck.

#### A Physician from Harrogate writes :—

January 4th, 1923.  
Your Ki-uma has been brought to my notice by a colleague who has used it successfully in an obstinate case of Arthritis of the hip-joint.



*Free from pain  
quite young again*

**Retail Price 3/- per tin  
on the P.A.T.A. List.**

**KI-UMA LTD. 6 Milsom St.,  
BATH.**

# LIQUID PARAFFIN B.P. 1914

EXCLUSIVELY REFINED FROM

## RUSSIAN CRUDES.

ALL GRAVITIES.

HIGHEST VISCOSITIES.

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White and Yellow Tasteless and Odourless.  
Natural Filtered and Opaque.

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FOR MANUFACTURING PURPOSES.

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Enquiries solicited for all Grades of Oil.

(1)

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WE refine and manufacture a large number of different grades of Petroleum Jellies from the finest White Filtered B.P. Jelly to the cheap Jelly for Veterinary purposes.  
*Prices and particulars on application.*

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Wholesale and Export Only.

**PRECIPITATED CHALK**

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LONDON, E.C.3.  
Telegrams: 'Levermore London.' Telephone: Central 4613.**CACHETS "FINOT"**

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With inscriptions in any desired tint; also Plain or Embossed.  
"A distinction all their own."—C. & D.  
"Perfection of Cachets."—*Lancet*.

These Cachets are especially adapted for Headache, Neuralgia and other powders.

**COOPER, SON & CO. LTD.,** 80 Gloucester Road, SOUTH KENSINGTON.  
In 17 Sizes to fit the various types of Cachet Machines.**MUD versus RHEUMATISM.**All sufferers from RHEUMATISM, Sciatica, Gout, Arthritis, Neuritis, Lumbago, etc., should send immediately for full particulars of **PISTANY RADIO-MUD** FOR HOME TREATMENT.

Remarkable results have been achieved and Doctors everywhere are recommending it. "The Lancet" writes—"We have made a trial of the mud on a bad case of FIBROSITIS of the elbow which was proving resistant to treatment by other means, and the result certainly was encouraging."

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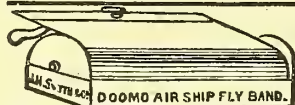
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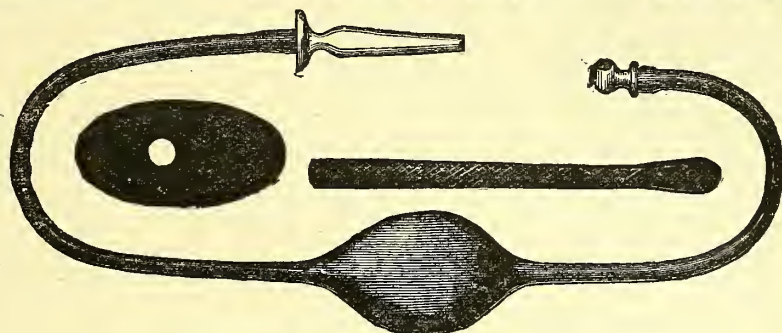
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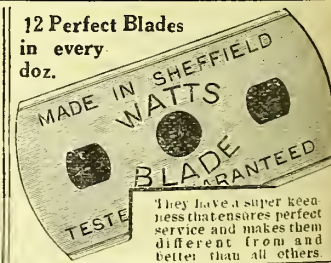
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FEBRUARY 24, 1923

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# THOS. TOMLINSON & SON

**CHEMISTS' VALUERS, TRANSFER AGENTS,  
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**45a MARKET STREET, MANCHESTER.**

ESTABLISHED OVER HALF A CENTURY.

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— LIMITED —

*Head Offices: 26-28 Kimberley House, Holborn Viaduct,  
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WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—LONDON, E.—Lock-up Druggist's Shop. Lease 21 years at 25s. week inclusive. Returns under unqualified management £550 p.a. Stock about £150. Price all at £450.

2.—LONDON, S.E.—Drug Stores. Lease 7 years, with option, 15s. week. Returns £225 week. Stock £200. Price all at £600. Good living accommodation.

3.—LONDON, S.W.—Drug Stores, good working-class district. Lease 20 years to run at £60 per annum. Let, off £35 p.a. Returns £30 week, all cash. Price, include everything (stock about £500), £880. Good living accommodation, and excellent prospects for qualified man.

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5.—KENT COAST.—Chemist and Photographic, best residential district of coast and town. Lease £52 per an., 5 years to run, with option of renewal or purchase of freehold property. Returns £48 week, all cash. Price all at £1,500, or near offer. Splendid living accommodation. Good living for qualified chemist. Business shows £450 net profit after allowing for proprietor's weekly drawings.

**STOCKTAKING.**—Now is the time to take your stock. Perhaps it is too much trouble or you have not the time to spare. Then why not consult the Practical Firm who will do this work for you for a small inclusive fee, without interference with your work. For full particulars write as above.

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# BUSINESSES WANTED

## FOR SALE.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

FOR immediate Sale, set Chemist Drawers in splendid condition, mahogany fronts, glass labels, 102 drawers in all with hinged opening flaps at bottom, 14 ft. 8 in. long x 4 ft. 1 in. high x 1 ft. 1 in. deep; Chemist Wall Case, 8 ft. 3 in. long x 8 ft. high, under part with framed front and panelled doors under, top part glass doors and wood shelves, made of mahogany. Apply, Geo. C. Aimer and Son, "Shopfitters, 15/19 Long Wynd, Dundee.

3 DOZEN long white whalebone ebony Ladies' Hair Brushes not soiled, 42s. dozen; approval; worth 80s.; sample brush 4s. S. W. Vincent & Co., Chemists, Addiscombe, Surrey.



**BUSINESSES WANTED.**

for 50 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER may if preferred have replies addressed to this office, and forwarded on payment of an additional charge of 1/-.

**GENUINE** Chemist's Business, medium to high-class; turnover £3,000; cash waiting. Please give full particulars as turnover, net profits, living accommodation in first instance; replies treated with strict confidence. 275/1, Office of this Paper.

**BUSINESS** wanted in Manchester or district; turnover about £2,000; living accommodation preferred; purchase of premises entertained if business a sound proposition. Apply "ardamons," 272/21, Office of this Paper.

**CHEMIST'S** Business or Drug Stores, Manchester district; turnover, £1,000 to £1,500 p.a.; living accommodation essential; cash waiting for suitable business; will consider partnership. Management, with view to early succession, in sound business. 272/36, Office of this Paper.

**HARMACIST**, active, middle-aged, requires small Business, London, country, either Retail, Agriculture, N.H.I., Photography or Dispensing; living accommodation; showing profit 50 or more; neglected not objected to; open for Branch managership with view to purchase. All replies treated with strict confidence. Lyon, 7 Egerton Gardens, Hendon, N.W.4.

**HARMACIST** desires to purchase at an early date a small Cash Chemist's Business or Drug Stores with good (not necessarily large) living accommodation in provincial town or near London suburb; replies treated with strict secrecy. "mega," 274/2, Office of this Paper.

**HARMACIST** desires good-class Dispensing and Retail Business or an engagement, with view to purchase within three months; returns not less than £3,000; good living accommodation an advantage; Liverpool or any other large provincial town preferred, but not essential; all replies answered and treated with strict confidence. 275/23, Office of this Paper.

**WANTED**, a genuine Chemist's Business with turnover of about £1,500; in Southern county preferred; cash available; neglected business with scope not objected to. State full particulars, in confidence, value of stock and fixtures, etc., to "paks," Wood Green, Breamore, Hants.

**WANTED**, Good-class Retail, preferably South, and without Photography, showing net profit after paying expenses of £700 to £800. Full particulars, in confidence, staff, turnover, rent, rates, lease, accommodation, and value of stock and fixtures; cash in hand. 274/9, Office of this Paper.

**PREMISES WANTED.**

**WE** require for a large established firm, Shop Premises in the main shopping street of good London suburbs, country and provincial towns; best positions only considered. Send details, in confidence, to "Premises Manager," Vickers & Anley, 317, High Holborn, W.C.

**PREMISES FOR SALE.**

**NORTH KENSINGTON**.—Bold corner premises for Sale, in densely populated neighbourhood; splendid opening for chemists; vacant possession; shop and basement floors; private terrace; upper part let at 19s. 4d. weekly; lease 41 years at £1; price £400, or deposit and balance by instalments as rent; regain. Weston, Agent, 10 Sutherland Avenue, Paddington.

*We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.*

**SALES BY AUCTION.**

THURSDAY, MARCH 1, at 12.30.

By order of a London Bank, WITHOUT RESERVE.

230 CASES PORCELAIN OINTMENT POTS, &c.

35 CASES PADLOCKS, 5 CASES DOOR LOCKS,

3 CASES SPARKING PLUGS, ELECTRIC STOVES,

Medical forceps, butter churns, metal, 300 gross sewing machine needles, wood frames, 13 cases felt shoe socks, and other trade stocks, which will be sold at the

LONDON TRADE SALE ROOMS, LTD.,

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Tel.: 1639 Holborn.

**LEGAL.**

A. H. ROSS, CHEMIST, 13 STRATHMARTINE ROAD,  
DUNDEE, DECEASED.

**PARTIES** having claims against, or who are indebted to, the deceased Alexander Hutchison Ross, Chemist and Druggist, 13 Strathmartine Road, Dundee, and who resided at 40 Albany Terrace, there, are requested to lodge their claims with, or pay their debts to the Subscriber, as Agent for the deceased's representatives, within 14 days from this date.

JAMES SIMPSON, Solicitor.

12 Bank Street, Dundee.

20th February, 1923.

**NOTE**.—Mr. Ross's business will be continued meantime under the management of Mr. Sutherland, his Assistant.

**AGENCIES.**

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

THE ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**LONDON** Representative, with sound connection amongst Manufacturing Chemists and Sundriesmen, can accept a Sole London Agency on commission basis. P.C.B. 12/3, Office of this Paper.

**SCOTLAND**.—Distributing Sole Agency open to high-class Wholesale House with established connection amongst Chemists in Scotland; non-competitive, live proprietary. Apply 20/625, Office of this Paper.

**ADVERTISER** (and son), with sound connection whole of Scotland amongst Chemists, Stores, etc., working ground by car, open for few good Agencies. No. 597, Keith and Co., Advertising Agents, Edinburgh.

**AGENTS**, with established live connections with Retail Chemists, required in all parts of England, Wales and Ireland, to carry well-known Proprietary article; liberal commission. Give details of goods carried and commission expected. 271/5, Office of this Paper.

**PARTNERSHIPS.**

**PARTNER** wanted to manage high-class business; about £1,500 required. 20/634, Office of this Paper.

**PARTNERSHIP** required in a sound Retail Business by young, energetic, experienced man; Brighton or South Coast preferred; capital available about £800. Write "D." at "Stanhope," North Bersted, Bognor.

**FINANCIAL.**

**OWNER** of Midland Factory desires to meet gentleman with available capital and suitable manufacturing proposition, with which owner would associate himself; the factory has a floor space of 10,000 ft., and is very light; the present plant, Steam Boiler, Jacketed Pans, Tanks, Fittings, etc., is available. 20/628, Office of this Paper.



**BUSINESSES FOR DISPOSAL.**

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

**DURHAM (Near).**—Drug Store Business and Property for Sale; established 16 years; full Wine Licence; Kodak Agency; electric light; qualified man could easily increase turnover with N.H.I.; must be sold conjointly; ill-health sole reason for disposal. Apply 274/38, Office of this Paper.

**HULL.**—Old-established Chemist's Business for disposal; sales £50 per month under unqualified management; this could be comfortably more than doubled by qualified man; splendid opening for N.H.I.; price about £400; purchase of property optional, 275/16, Office of this Paper.

**LONDON, S.E.**—Cash Retail and Dispensing Business, with Kodak Agency and good opening for Optics; returns approach £2,500; net profit 25 per cent.; lock-up shop; held on lease; price £1,350 or near offer. Apply "Alpha," 20/631, Office of this Paper.

**LONDON, S.W.**—Drug Stores, main road; no near opposition; low rent and rates; 4 rooms let off; accommodation available 2 rooms and scullery, w.c.; taking £14 weekly under poor management; qualified man could more than double returns; opening for N.H.I. and Optics; take quick cash offer near £400. Write 274/39, Office of this Paper.

**LONDON, N.W.**—£3,500 in cash purchases splendidly-fitted shop in busy thoroughfare; Kodak Agency; progressive business; vacant possession of 10 rooms over shop, could be let off at good rental; premises for sale, or lease granted; splendid opportunity for up-to-date man or big firm. Apply, 272/32, Office of this Paper.

**LONDON, S.W.**—Illness compels sacrifice of good, progressive Business; established only 18 months; well-fitted, double-fronted shop, main road; no near opposition; Kodak Agency; 14 years' lease, at £52 p.a., inclusive; flat available close by; turnover last year, £1,740; stock, about £700; price all at, £1,150; good opening exists for Dentistry and Optics. Apply, 275/15, Office of this Paper.

**PLYMOUTH.**—Cash Retail Business with N.H.I. and Prescribing; returns average about £1,300; double-fronted shop; living accommodation; good opening for Photography and Optics; rent £55; rates £28; price £1,000, or offer. For full printed particulars apply Messrs. Taylor & Lewis, F.A.I., Auctioneers, Valuers and Surveyors, 1 Courtenay Street, Plymouth.

**YORKSHIRE.**—Good-class Chemist's Business, on main road; double-fronted shop; good living accommodation, and fitted with electric light; weekly takings £25; rent £40; no near opposition; price, including goodwill, stock and fixtures at valuation, about £800 to £1,000; stock could be reduced if necessary. 270/6, Office of this Paper.

**AGRICULTURAL** market and residential town, 40 miles from London; old-established good Retail, full Wine Licence; double-fronted shop, well fitted and stocked; returns at present, £1,200, with real scope for increase, especially in Photography and Optics; good modern residence, private entrance, garden; property, freehold, £1,200; Business at valuation. 275/35, Office of this Paper.

**A**N old-established, sound, and profitable Business, doing about £10 a day; situated in good position in centre of a large town in the North of England; purchaser must have at least £1,000 capital available to entertain purchase. Apply, "R. S.," 20/626, Office of this Paper.

**BEST** suburb of large town.—For immediate disposal, excellent Chemist's Business; turnover last year, over £2,600; large modern shop, well fitted and stocked; house attached, with separate entrance; inclusive price for the business and property, £3,500; books kept and inspection invited. Full particulars on receipt of banker's or other reference. Apply, 275/39, Office of this Paper.

**GENUINE** light Country Business for Sale, situated in South Midlands; has unrestricted Wine Licence; returns past year £1,500; unopposed and long established; excellent house, with bathroom, gas, water, and private entrance; nice garden; will sell or lease property; no agents. 272/30, Office of this Paper.

**MEDIUM-CLASS** Business, 20 miles out of London, with living accommodation; no near opposition; low rent; long lease; Optical and Dental connection, small N.H.I., fair amount private dispensing; well stocked; price £1,500, cash. "K. G.," 272/34, Office of this Paper.

**MINERAL** Water Manufacturing and Wholesale Confectionery Business for sale; London district; old-established; profits, £800 p.a.; price £2,500, includes plant, stock, fittings, lease, etc.; £500 can remain; son will assist purchaser. Apply, Arnold and Co. (London), Ltd., 143, Cannon Street, E.C.4.

**WHOLESALE** Druggists' Sundries (Packed Goods) Business for Sale; about 2,000 customers; Manchester district. Apply F. Arthur Pitt, Chartered Accountant, 14 John Dalton Street, Manchester.

**TENDERS.**

PARISH OF LAMBETH.

**CONTRACT FOR DRUGS AND DRUGGISTS' SUNDRIES**

**THE** Guardians of the Poor of the Parish of Lambeth desire to receive Tenders for the supply (from time to time wanted) of **DRUGS AND DRUGGISTS' SUNDRIES** during six months commencing the 1st April next.

Printed forms of Tender, with conditions annexed (which will be received), may be obtained at this office any day (except Saturday) between the hours of ten and five.

The Tenders must be sent by post on or before Tuesday, 6th proximo, and will be opened at a meeting of the Guardians on the following day, but will be decided upon at a subsequent meeting.

The Guardians do not bind themselves to accept the lowest or any tender.

By Order, **JAMES L. GOLDSPIK, Clerk**  
Guardians' Board Room and Offices,  
Brook Street, Kennington Road, S.E.11.  
15th February, 1923.

**TENDERS** are invited for the supply of 2,000 lbs. Ab. C. Wool; 1,000 dozen Quinine Tabs., 2 gr. in bottles; 300 lbs. Gum Acacia, pulv., 1-lb. bottles; 300 lbs. Formaline, 1-lb. bottles; 200 lbs. Iodoform, 1-lb. bottles. Full particulars to "Ajax," Jas. Smith & Partners, Ltd., 36, Camomile Street, London, E.C.

**THE** High Commissioner for India is prepared to receive Tenders for the supply of:—

1. Glycerinum, B.P.,
2. Potassii Iodidum, B.P., crystals.

Forms of Tender may be obtained from the Director-General India Store Department, Branch No. 46, Belvedere Road, Lambeth, S.E.1, and Tenders are to be delivered at that Office not later than Two o'clock p.m. on Friday, the 16th March 1923.

T. RYAN, Director-General

**TO LET.**

**TO** Chemists.—There is an excellent opening for a Chemist Watford (population 40,000). For particulars of prominently situated Shop to be Let apply Bradshaw & Co. 439-441 Oxford Street W.1, or 4 Dudley's Corner, Watford.

**TO** Let, Lock-up Shop; rent £75; progressive Southern town; excellent opening for Chemist. "F.," c/o Smith & Son, Railway Station, Sutton.

**TO** Let, compact Lock-up Shop, main street, good Southern Lancashire town; well fitted; no other chemist in street. Apply H. B. Houghton, Estate Agent, 1 Suez Street, Warrington.

**SITUATIONS OPEN.**

[HOME.]

**RETAIL.**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to the Office, and forwarded on payment of an additional charge of 10s.

**BLACKPOOL.**—Lady Assistant required for light Retail and Dispensing business; good Saleswoman and Window dresser; knowledge of Photography. State full particulars, experience, and salary required. Applications not answered in 14 days courteously declined. Apply 272/29, Office of this Paper.

**BRISTOL.**—Unqualified Assistant, about 30, for Counter; must be a good Salesman; Photography; must have good references. Apply, with full particulars, to Lennox, Chemist & Optician, 82 Stokes Croft, Bristol.

**ESSEX.**—Elderly qualified man to manage branch; state salary and commission on profits. Address, P.C.B. 12, Office of this Paper.

**FOLKESTONE.**—Junior Assistant (male), to live in, for good class Dispensing business. Apply, stating age, salary, and full particulars, and send photograph, to J. W. Stainer, Pharmaceutical Chemist, Folkestone.

**LEEDS.**—Qualified Manager required for a busy business in an industrial area; must be energetic and a good window dresser; state salary. Applications not answered by the 28th inst. declined. Apply, Murray's Pharmacies, Ltd., Retail Chemists, 221 Woodhouse Lane, Leeds.



Wanted, unqualified Assistant, quick and accurate worker for Photography, Stock, and Dispensing; good references; state experience and salary. 275/2, Office of this Paper.

POOL.—Wanted, an unqualified Assistant, good appearance and address, for high-class Family and Dispensing; must be quick, neat and accurate Dispenser. Apply, full particulars and references, G. H. Cole, The Cy, Blundellsands.

ON, Fulham District.—Young qualified man wanted by ginning of March; good Dispenser, with knowledge of apply. Apply, in first instance, stating terms, to 273/5, this Paper.

ON, S.W.—Wanted, Counter Assistant, male, with good knowledge of Surgical Instruments, and capable of work for Elastic Stockings, Trusses, Belts, etc. Write, salary required, and stating experience, Box 1381, Sell's Printing Offices, Fleet Street, E.C.4.

ON, S.W.—Lady Assistant, outdoor, Hall certificate, for counter and Dispensing, mostly N.H.I.; hours, 9.30 to 8, 4.5 p.m., but can generally get away half-hour earlier; Thursdays, no Sunday duty; applicant not under 25; shop experience preferred. State salary required, only to "Chemist," 13 Gunter Grove, Chelsea. If no 3 days, courteously declined.

ON, S.W.—Wanted, competent outdoor male Assistant, out 30; must be a good Dispenser and Salesman, with good Photography. Applications to be accompanied by particulars, and salary required. 275/6, Office of this Paper.

ON, WEST.—A competent and trustworthy Junior Assistant required in a few weeks' time, in an old-established Pharmacy; applicant must be a good Dispenser, with undeniable references; one accustomed to West-End preferred, but not essential; outdoors; hours, 9 to 8, Sunday and holiday duties later, 1 in 3. Apply, stating age, experience and salary expected, to 20/633, Office of this Paper.

LANDS.—Wanted, immediately, Assistant with experience in the Seed Trade, for Mixed Business; able to take State if qualified, age, experience, references, salary, when at liberty, etc., to "Seeds," 275/17, Office of this Paper.

L HOSPITAL, CHESTERFIELD.—Immediately a young male Assistant Dispenser who desires to improve experience and Hospital routine work; commencing £80 per annum; hours 9.30 to 6 p.m., Saturday 1 p.m. to H. Barton, M.P.S.

ORD, MANCHESTER.—Qualified Manager required for really working-class business; man residing in Manchester; please give fullest particulars. 272/31, Office of this Paper.

ALIFIED Assistant will be required in a month or two in a good-class seaside Business; he must be gentlemanly, and a keen business man, with up-to-date experience; must bear every investigation. Apply, stating salary and particulars, to 275/4, Office of this Paper.

STANT, 25-35; tall, energetic, and willing; must be a good Salesman, and possess a competent knowledge of Photography; Window-dressing experience an advantage; references essential. State all usual particulars and salary. A. Chater, Chemists, Watford.

BLE Junior for good-class Dispensing and Photographic business required for April 3. Gregory, Chemist, Huyton, Liverpool.

RETIC Qualified Assistant; good salesman and window-dresser; accurate Dispenser; knowledge of Photography; age, experience and salary required and references. Apply, J. Chemist, Roker, Sunderland.

SCIS HALLAM, LTD., have an immediate vacancy for a part unqualified Assistant; good Counterman, accurate worker, and with real knowledge of Photographic trade, and full particulars, with salary, in first letter, to The Pharmacy, Burton-on-Trent.

OVERDALE'S, SONS, Chemists, York, require a qualified Manager for branch pharmacy in York to take sole charge; 40; married; must be excellent Prescriber and full knowledge of Photography, Salesmanship; one able to improve a good references essential; accommodation provided, also water. Applications unanswered in 3 days not entertained.

LIGENT Lady Assistant required for counter. Write call, 2-4.30 p.m. Friday, Manor Place Drug Stores, 206 Place, Kennington, S.E.

OR Assistant in good-class general business; vacancy open; apprentice employed. Apply, stating terms, etc., to Pratt, Chemist, Warwick.

Dispenser wanted. Apply, with testimonials, stating salary, Drs. Prichard & Gardner Hill, Horsefair, Banbury.

LADY Assistant required at once for good-class Pharmacy, Newcastle-on-Tyne district; must be expert Window-dresser, Saleswoman, Dispenser, and have Photographic knowledge, be of good appearance and address; only those possessing above qualifications need apply. Address letters, giving salary required, height, age, enclosing references and photo (to be returned), to 272/38, Office of this Paper.

MANAGER; qualified; male or female; small village branch within easy reach of London; single-handed; scope for increase of business; moderate salary, with commission. Apply, giving full particulars, 275/30, Office of this Paper.

QUALIFIED Manager, 30-35, single, in good-class neighbourhood; Dispensing, Photography and Toilet; reorganising at present; single-handed; good scope for keen man; state salary, outdoors, and references. Replies not answered in 10 days declined. 275/3, Office of this Paper.

QUALIFIED man wanted for Midland branch; wages £4, part house (3 rooms), and commission; must be disengaged now. Name of last reference and all particulars in first letter. 275/8, Office of this Paper.

RELIABLE Assistant required immediately; must be capable Dispenser, energetic and willing, with knowledge of Photography. State full particulars age, height, experience and salary required in first letter. Weomoth, Pharmacist, 18 Milkwood Road, Berne Hill, S.E.

RELIABLE, qualified Manager required for N.W. London; good opportunity for first-class man; good wages and share of profits. Apply immediately to Marshall Roberts, Ltd., 197 High Street, Camden Town, London. Also Junior required.

REQUIRED, for an old-established West-End Chemist's business, Working Manager. Write, stating age, qualifications, experience, salary required, to Box 39, c/o Dawson's, 17 Craven Street, Strand, W.C.2.

REQUIRED, qualified Manager, young and active, for branch business, one Assistant kept, for an industrial neighbourhood in the West of England; salary and share of profits to one with £250 capital. 272/28, Office of this Paper.

UNQUALIFIED Assistant, single, not under 27, with good Dispensing and Counter experience, and knowledge of Photography; outdoors; short hours; near London. 265/13, Office of this Paper.

UNQUALIFIED Manager for small Drug Stores, London district; salary and commission; must deposit £150, returnable at expiration of service. Apply, by letter, "X. Y. Z., c/o Watkinsons, 115 High Holborn, W.C.1.

WANTED, a qualified Welsh-speaking Manager, middle age, in North Wales, to manage for widow; state salary, in and outdoor experience, references, etc. Apply, 265/11, Office of this Paper.

YOUNG qualified man required immediately by small firm or London Chemists. Apply by letter, enclosing references and photo., if available, to 275/24, Office of this Paper.

## WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

A PROGRESSIVE firm of Manufacturing Chemists is packed goods and proprietary lines are seeking a high-grade Sales Manager who is big enough to enter into a business with already a large connection and adapt a policy that will be out of the rut of ordinary competition; an opening of great promise to the party who has the ability for a position of this kind. Replies, P.C.B. 12/23, Office of this Paper.

A SMALL Firm with good range of high-class Toilet Preparations require Representatives with good connection amongst Chemists, Stores, Hairdressers, etc., to carry goods as side line. Reply to Dupré, 39 Grosvenor Gardens, London, S.W.1.

ADVERTISING.—Young Man with knowledge of Pharmaceutical Trade and some Advertising experience required in copy department of London firm. Particulars of education, experience and salary to 20/627, Office of this Paper.

CHEMIST accustomed to the manufacture of Galenicals by up-to-date methods and able to take full charge of staff, required by small wholesale house in Lancashire; one desiring a permanency preferred; a practical knowledge of the manufacture of Compressed Tablets and Lozenges an advantage. Apply, stating age, experience and salary required, 274/60, Office of this Paper.

ESSENTIAL Oils.—Large firm of Import Merchants require experienced Salesman for town and country to visit principal consumers and eventually take entire charge of department; permanent position trust; liberal salary to competent man. State full particulars to "Z. E. O., c/o Deacons, Leadenhall Street, E.C.3.

EXPERIENCED Representative wanted for the sale of bulk Perfumes, Essences and Essential Oils as extra line for West, Midland, North and Scotland. 266/24, Office of this Paper.



**ESTABLISHED** firm (Kingsway, London), with wide connection among Chemists, etc., in home and foreign markets, have facilities for developing a subsidiary enterprise of great promise, requires the services of a young man possessing ability and initiative to undertake the supervision; must be willing to invest £1,000. Write, giving full particulars of experience, etc., to 271/28, Office of this Paper.

**EXPERIENCED** Representative wanted to call on Chemists in South-West London, Surrey and Berkshire, on salary and commission; preference given to representative well-known on aforesaid ground. Apply, "S. W. L.," 20/624, Office of this Paper.

**LABORATORY** man wanted for Wholesale Druggist's Steam Laboratory in the provinces; must be thoroughly reliable and experienced. Please state age, previous experience, and wages required. 274/6, Office of this Paper.

**LIVE** Representative, with sound connection in the Glass Bottle Trade, required for London district. 270/4, Office of this Paper.

**MANAGER** (Qualified Chemist preferred) to control and be responsible for the Packed Goods Department of Wholesale Sundries house in London; must have knowledge of the preparation of Toilets and Pharmaceuticals; please give full details of previous experience. 20/629, Office of this Paper.

**NORTHERN** Sundries House require energetic Representatives for following areas: (a) North Yorks, Durham, Northumberland, (b) Potteries, Cheshire, Manchester and Liverpool district; liberal remuneration to capable men, who must have sound and established connections. Applications, giving full particulars, will be treated in strict confidence, to 271/7, Office of this Paper.

**REPRESENTATIVE** wanted calling on Trade, and sampling house to house; must drive Ford car and have exceptional trade references; not over 35 years of age. Apply, stating salary required, 20/623, Office of this Paper.

**REPRESENTATIVES** and Agents required throughout British Isles to carry "The Crusader" Rubber Hot-water Bottle and other "Crusader" products, all nationally advertised lines; must have good, live connection, and able to introduce important business on liberal terms. Details, by letter, to The Crusader Rubber Co., Ltd., 62 London Wall, E.C.

**REPRESENTATIVES** wanted for Midland Counties to offer Waterglass to Chemists, etc., on commission; exceptionally attractive, unique and varied styles of labels, show and window-display matter. Brook, Parker & Co., Ltd., Ashfield, Bradford.

**REPRESENTATIVES** in all parts of U.K. calling upon Wholesale Houses are required at once by actual manufacturers to sell on generous commission basis Fine and Commercial Chemicals; only first-class men with good records and references need apply. P.C.B. 12/20, Office of this Paper.

**SALESMAN** wanted to work and extend existing connection and sell Bulk and Packed Goods among Chemists in part London and Eastern Counties; remuneration by arrangement; only live, energetic men need apply, giving full details as to experience, territory covered, salary required, and when available, in confidence. 20/630, Office of this Paper.

**UNQUALIFIED** Head Counterman for new druggist's premises to open shortly. State age, experience, and wages required. Charles C. Williams, Ltd., 281/3, Broad Street, Birmingham.

**20 PER CENT** commission, exclusive and competitive; Powder Puffs; excellent side line for gentleman with live and extensive connection amongst the buyers, chemists, perfumers, and stores. Provincial territories open; preference will be given to gentleman with experience in selling puffs. 274/37, Office of this Paper.

**£5 COMMISSION** weekly easily earned with new side line. Travellers calling upon Chemists and Hairdressers should not fail to investigate our proposition. Scott's Chemical Co., Ltd., 47 Huddlestons Road, London, N.W.2.

## SITUATIONS WANTED.

### RETAIL

#### [HOME.]

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

**A.A.A.**—PHARMACIST, disengaged; permanent or temporary; 34; registered locum R.P.U.; any capacity; anywhere; moderate. "D. S. S.," 2 Albert Road, Dorchester.

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